



NASA SP-7039 (08)

Section 2
Indexes

NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

JANUARY 1976

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ACCESSION NUMBER RANGES

<i>Bibliography Number</i>	<i>STAR Accession Numbers</i>
NASA SP-7039(04)	N69-20701-N73-33931
NASA SP-7039(05)	N74-10001-N74-21629
NASA SP-7039(06)	N74-21630-N74-35363
NASA SP-7039(07)	N75-10001-N75-21218
NASA SP-7039(08)	N75-21219-N75-34001

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NASA

PATENT
ABSTRACTS
BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

Indexes for the annotated references to NASA-owned inventions covered by U.S. patents and applications for patent that were announced in *Scientific and Technical Aerospace Reports (STAR)* between May 1969 and December 1975. This issue supersedes all previous Index Sections.



This Supplement is available from the National Technical Information Service (NTIS), Springfield, Virginia 22161, for \$5.00. For copies mailed to addresses outside the United States, add \$2.50 per copy for handling and postage.

INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since May 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Section of Issue 04 (January 1974), the Abstract Section for all subsequent issues, and the Index Section for the most recent issue.

The 180 citations published in this issue of the Abstract Section cover the period July 1975 through December 1975. The Index Section contains references to the 2905 citations covering the period May 1969 through December 1975.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue incorporates the 1975 *STAR* category revisions which include 10 major subdivisions divided into 74 specific categories and one general category/division. (See Table of Contents for the scope note of each category under which are grouped appropriate NASA inventions.) This new scheme was devised in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and a key illustration taken from the patent or application for patent drawing. Entries are arranged in subject category in order of the ascending NASA Accession Number originally assigned in *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

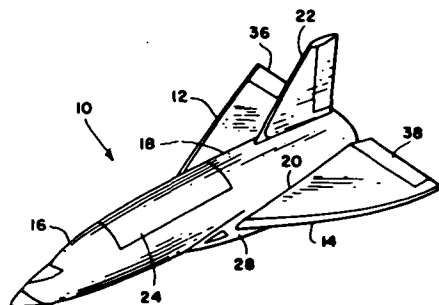
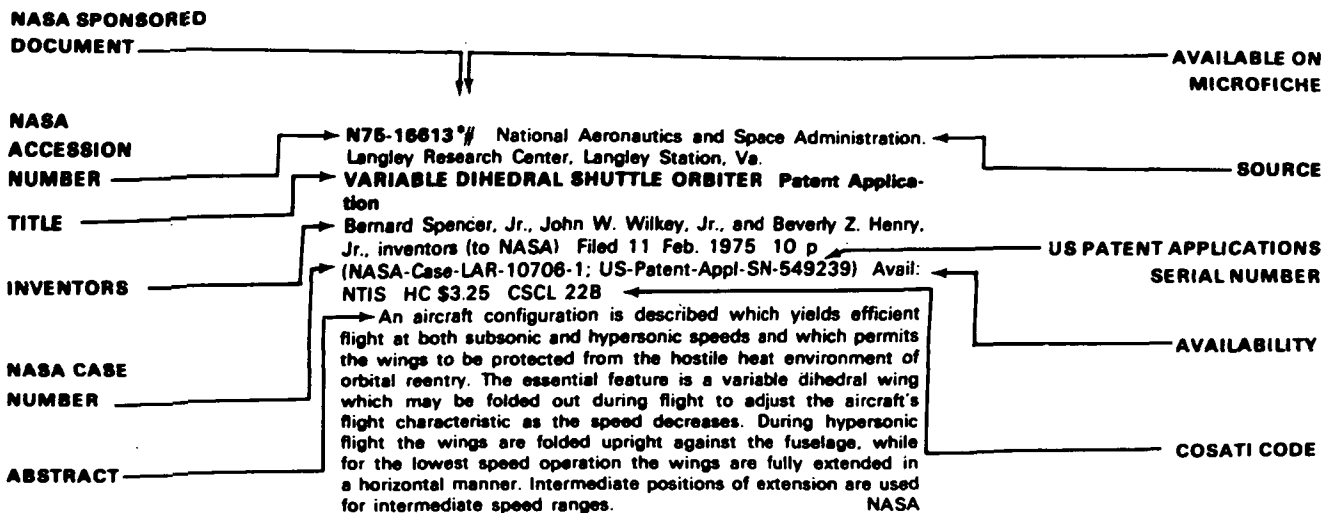
Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

NASA Accession Number
NASA Case Number
Inventor's Name

Title of Invention
 U.S. Patent Application Serial Number
 U.S. Patent Number (for issued patents only)
 U.S. Patent Office Classification Number(s)
 (for issued patents only)

These data elements appear in the citation of the abstract as depicted in the Typical Citation and Abstract reproduced below and are also used in the several indexes..

TYPICAL CITATION AND ABSTRACT FROM PATENT ABSTRACTS BIBLIOGRAPHY



← **KEY ILLUSTRATION**

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes which are cross-indexed and are useful in locating a single invention or groups of inventions.

Each of the five indexes utilizes basic data elements: (1) Subject Category Number, (2) NASA Accession Number, and (3) NASA Case Number, in addition to other specific index terms.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the NASA Accession Number.

Accession Number Index: Lists all inventions in order of ascending NASA Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible when using the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder. For previous *NASA PAB* issues, the Table of Contents to Section 1 should be examined as the subject categories were changed beginning with *NASA PAB(07)*.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number

desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (i) use the Subject Category Number to locate the Subject Category and (ii) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (does not include applications for patent) within a desired Patent Office Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated inventions(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

PUBLIC AVAILABILITY OF COPIES OF PATENTS AND PATENT APPLICATIONS

Copies of U.S. patents may be purchased directly from the U.S. Patent Office, Washington, D.C. 20231, for fifty cents a copy.

Copies of pending NASA applications for patent abstracted in *NASA PAB* are sold by the National Technical Information Service, Springfield, Virginia 22161, at the price shown in the citation. Microfiche are sold at the established unit price of \$2.25. When ordering copies of an application for patent from NTIS, the U.S. Patent Application Serial Number listed in the index or shown in the citation for each abstract should be used to identify the desired application for patent.

LICENSES FOR COMMERCIAL USE: INQUIRIES AND APPLICATIONS FOR LICENSE

NASA inventions, abstracted in *NASA PAB*, are available for nonexclusive or exclusive licensing in accordance with the NASA Patent Licensing Regulations. It is significant that all licenses for NASA inventions shall be by express written instruments and that no license will be granted or implied in a NASA invention except as provided in the NASA Patent Licensing Regulations.

Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U.S. patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Assistant General Counsel for Patent Matters, Code GP, National Aeronautics and Space Administration, Washington, D.C. 20546. Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U.S. Patent Number or the U.S. Application Serial Number assigned to the invention as shown in *NASA PAB*.

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table. Formal application of license must be submitted on the NASA Form, Application for NASA Patent License, which is available upon request from any NASA Patent Counsel.

**NASA Case
Number
Prefix Letters**

**Address of Cognizant
NASA Patent Counsel**

ARC-xxxxx
XAR-xxxxx

Ames Research Center
Mail Code: 200-11A
Moffett Field, California 94035
Telephone: (415)965-5104

ERC-xxxxx
XER-xxxxx
HQN-xxxxx
XHQ-xxxxx

NASA Headquarters
Mail Code: GP
Washington, D.C. 20546
Telephone: (202)755-3954

GSC-xxxxx
XGS-xxxxx

Goddard Space Flight Center
Mail Code: 204
Greenbelt, Maryland 20771
Telephone: (301)982-2351

KSC-xxxxx
XKS-xxxxx

John F. Kennedy Space Center
Mail Code: AA-PAT
Kennedy Space Center, Florida 32899
Telephone: (305)867-2544

LAR-xxxxx
XLA-xxxxx

Langley Research Center
Mail Code: 456
Langley Station
Hampton, Virginia 23365
Telephone: (804)827-3725

LEW-xxxxx
XLE-xxxxx

Lewis Research Center
Mail Code: 500-311
21000 Brookpark Road
Cleveland, Ohio 44135
Telephone: (216)433-6346

MSC-xxxxx
XMS-xxxxx

Lyndon B. Johnson Space Center
Mail Code: AM
Houston, Texas 77058
Telephone: (713)483-4871

MFS-xxxxx
XMF-xxxxx

George C. Marshall Space Flight Center
Mail Code: CCO1
Huntsville, Alabama 35812
Telephone: (205)453-0020

NPO-xxxxx
XNP-xxxxx
FRC-xxxxx
XFR-xxxxx
WOO-xxxxx

NASA Pasadena Office
Mail Code: 180-601
4800 Oak Grove Drive
Pasadena, California 91103
Telephone: (213)354-2700

PATENT LICENSING REGULATIONS

Title 14—AERONAUTICS AND SPACE

Chapter V—National Aeronautics and Space Administration

PART 1245—PATENTS

Subpart 2—Patent Licensing Regulations

1. Subpart 2 is revised in its entirety as follows:

Sec.	
1245.200	Scope of subpart.
1245.201	Definitions.
1245.202	Basic considerations.
1245.203	Licenses for practical application of inventions.
1245.204	Other licenses.
1245.205	Publication of NASA inventions available for license.
1245.206	Application for nonexclusive license.
1245.207	Application for exclusive license.
1245.208	Processing applications for license.
1245.209	Royalties and fees.
1245.210	Reports.
1245.211	Revocation of licenses.
1245.212	Appeals.
1245.213	Litigation.
1245.214	Address of communications.

AUTHORITY: The provisions of this Subpart 2 issued under 42 U.S.C. 2457, 2473 (b) (3).

§ 1245.200 Scope of subpart.

This Subpart 2 prescribes the terms, conditions, and procedures for licensing inventions covered by U.S. patents and patent applications for which the Administrator of the National Aeronautics and Space Administration holds title on behalf of the United States.

§ 1245.201 Definitions.

For the purpose of this subpart, the following definitions apply:

(a) "Invention" means an invention covered by a U.S. patent or patent application for which the Administrator of NASA holds title on behalf of the United States and which is designated by the Administration as appropriate for the grant of license(s) in accordance with this subpart.

(b) "To practice an invention" means to make or have made, use or have used, sell or have sold, or otherwise dispose of according to law any machine, article of manufacture or composition of matter physically embodying the invention, or to use or have used the process or method comprising the invention.

(c) "Practical application" means the manufacture in the case of a composition of matter or product, the use in the case of a process, or the operation in the case of a machine, under such conditions as to establish that the invention is being utilized and that its benefits are reasonably accessible to the public.

(d) "Special invention" means any invention designated by the NASA Assistant General Counsel for Patent Matters to be subject to short-form licensing procedures. An invention may be designated as a special invention when a determination is made that:

(1) Practical application has occurred and is likely to continue for the life of

the patent and for which an exclusive license is not in force, or

(2) The public interest would be served by the expeditious granting of a nonexclusive license for practice of the invention by the public.

(e) The "Administrator" means the Administrator of the National Aeronautics and Space Administration, or his designee.

(f) "Government" means the Government of the United States of America.

(g) The "Inventions and Contributions Board" means the NASA Inventions and Contributions Board established by the Administrator of NASA within the Administration in accordance with section 305 of the National Aeronautics and Space Act of 1958 as amended (42 U.S.C. 2457).

§ 1245.202 Basic considerations.

(a) Much of the new technology resulting from NASA sponsored research and development in aeronautical and space activities has application in other fields. NASA has special authority and responsibility under the National Aeronautics and Space Act of 1958, as amended (42 U.S.C. 2451), to provide for the widest practical dissemination and utilization of this new technology. In addition, NASA has been given unique requirements to protect the inventions resulting from NASA activities and to promulgate licensing regulations to encourage commercial use of these inventions.

(b) NASA-owned inventions will best serve the interests of the United States when they are brought to practical application in the shortest time possible. Although NASA encourages the non-exclusive licensing of its inventions to promote competition and achieve their widest possible utilization, the commercial development of certain inventions calls for a substantial capital investment which private manufacturers may be unwilling to risk under a nonexclusive license. It is the policy of NASA to seek exclusive licensees when such licenses will provide the necessary incentive to the licensee to achieve early practical application of the invention.

(c) The Administrator, in determining whether to grant an exclusive license, will evaluate all relevant information submitted by applicants and all other persons and will consider the necessity for further technical and market development of the invention, the capabilities of prospective licensees, their proposed plans to undertake the required investment and development, the impact on competitors, and the benefits of the license to the Government and to the public. Preference for exclusive license shall be given to U.S. citizens or companies who intend to manufacture or use, in the case of a process, the invention in the United States of America, its territories and possessions. Consideration may also be given to assisting small businesses and minority business enterprises, as well as economically depressed, low income and labor surplus areas.

(d) All licenses for inventions shall

be by express written instruments. No license shall be granted either expressly or by implication, for a NASA invention except as provided for in §§ 1245.203 and 1245.204 and in any existing or future treaty or agreement between the United States and any foreign government.

(e) Licenses for inventions covered by NASA-owned foreign patents and patent applications shall be granted in accordance with the NASA Foreign Patent Licensing Regulations (§ 1245.4).

§ 1245.203 Licenses for practical application of inventions.

(a) *General.* As an incentive to encourage practical application of inventions, licenses will be granted to responsible applicants according to the circumstances and conditions set forth in this section.

(b) *Nonexclusive licenses.* (1) Each invention will be made available to responsible applicants for nonexclusive, revocable licensing in accordance with § 1245.206, consistent with the provisions of any existing exclusive license.

(2) The duration of the license shall be for a period as specified in the license.

(3) The license shall require the licensee to achieve the practical application of the invention and to then practice the invention for the duration of the license.

(4) The license may be granted for all or less than all fields of use of the invention and throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof.

(5) The license shall extend to the subsidiaries and affiliates of the licensee and shall be nonassignable without approval of the Administrator, NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(c) *Short-form nonexclusive licenses.*

A nonexclusive, revocable license for a special invention, as defined in § 1245.201 (d), shall be granted upon written request, to any applicant by the Patent Counsel of the NASA Installation having cognizance of the invention.

(d) *Exclusive licenses.* (1) A limited exclusive license may be granted on an invention available for such licensing provided that:

(i) The Administrator has determined that: (a) The invention has not been brought to practical application by a nonexclusive licensee in the fields of use or in the geographical locations covered by the application for the exclusive license, (b) practical application of the invention in the fields of use or geographical locations covered by the application for the exclusive license is not likely to be achieved expeditiously by the further funding of the invention by the Government or under a nonexclusive license requested by any applicant pursuant to these regulations, and (c) the exclusive license will provide the necessary incentive to the licensee to achieve the practical application of the invention; and

(ii) Either a notice pursuant to

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§ 1245.205 listing the invention as available for licensing has been published in the FEDERAL REGISTER for at least 9 months; or a patent covering the invention has been issued for at least 6 months. However, a limited exclusive license may be granted prior to the periods specified above if the Administrator determines that the public interest will best be served by the earlier grant of an exclusive license.

(2) The license may be granted for all or less than all fields of use of the invention, and throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof.

(3) The exclusive period of the license shall be negotiated, but shall be for less than the terminal portion of the patent, and shall be related to the period necessary to provide a reasonable incentive to invest the necessary risk capital.

(4) The license shall require the licensee to practice the invention within a period specified in the license and then to achieve practical application of the invention.

(5) The license shall require the licensee to expend a specified minimum sum of money and/or to take other specified actions, within indicated period(s) after the effective date of the license, in an effort to achieve practical application of the invention.

(6) The license shall be subject to at least an irrevocable royalty-free right of the Government of the United States to practice and have practiced the invention throughout the world by or on behalf of the Government of the United States and on behalf of any foreign government pursuant to any existing or future treaty or agreement with the United States.

(7) The license may reserve to the Administrator, NASA, under the following circumstances, the right to require the granting of a sublicense to responsible applicant(s) on terms that are considered reasonable by the Administrator, taking into consideration the current royalty rates under similar patents and other pertinent facts: (i) To the extent that the invention is required for public use by Government regulation, or (ii) as may be necessary to fulfill health or safety needs, or (iii) for other purposes stipulated in the license.

(8) The license shall be nontransferable except to the successor of that part of the licensee's business to which the invention pertains.

(9) Subject to the approval of the Administrator, the licensee may grant sublicenses under the license. Each sublicense granted by an exclusive licensee shall make reference to and shall provide that the sublicense is subject to the terms of the exclusive license including the rights retained by the Government under the exclusive license. A copy of each sublicense shall be furnished to the Administrator.

(10) The license may be subject to such other reservations as may be in the public interest.

§ 1245.204 Other licenses.

(a) *License to contractor.* There is

hereby granted to the contractor reporting an invention made in the performance of work under a contract of NASA in the manner specified in section 305(a)

(1) or (2) of the National Aeronautics and Space Act of 1958 as amended (42 U.S.C. 2457(a) (1) or (2)), a revocable, nonexclusive, royalty-free license for the practice of such invention, together with the right to grant sublicenses of the same scope to the extent the contractor was legally obligated to do so at the time the contract was awarded. Such license and right is nontransferable except to the successor of that part of the contractor's business to which the invention pertains.

(b) *Miscellaneous licenses.* Subject to any outstanding licenses, nothing in this subpart 2 shall preclude the Administrator from granting other licenses for inventions, when he determines that do so would provide for an equitable distribution of rights. The following exemplify circumstances wherein such licenses may be granted:

(1) In consideration of the settlement of an interference;

(2) In consideration of a release of a claim of infringement; or

(3) In exchange for or as part of the consideration for a license under adversely held patent(s).

§ 1245.205 Publication of NASA inventions available for license.

(a) A notice will be periodically published in the FEDERAL REGISTER listing inventions available for licensing. Abstracts of the inventions will also be published in the NASA Scientific and Technical Aerospace Reports (STAR) and other NASA publications.

(b) Copies of pending patent applications for inventions abstracted in STAR may be purchased from the National Technical Information Service, Springfield, Va. 22151.

§ 1245.206 Application for nonexclusive license.

(a) *Submission of application.* An application for nonexclusive license under § 1245.203(b) or a short-form nonexclusive license for special inventions under § 1245.203(c) shall be addressed to the NASA Patent Counsel of the NASA installation having cognizance over the NASA invention for which a license is desired or to the NASA Assistant General Counsel for Patent Matters.

(b) *Contents of an application for nonexclusive license.* An application for nonexclusive license under § 1245.203(b) shall include:

(1) Identification of invention for which license is desired, including the NASA patent case number, patent application serial number of patent number, title and date, if known;

(2) Name and address of the person, company or organization applying for license and whether the applicant is a U.S. citizen or a U.S. corporation;

(3) Name and address of representative of applicant to whom correspondence should be sent;

(4) Nature and type of applicant's business;

(5) Number of employees;

(6) Purpose for which license is desired;

(7) A statement that contains the applicant's best knowledge of the extent to which the invention is being practiced by private industry and the Government;

(8) A description of applicant's capability and plan to undertake the development and marketing required to achieve the practical application of the invention, including the geographical location where the applicant plans to manufacture or use, in the case of a process, the invention; and

(9) A statement indicating the minimum term of years the applicant desires to be licensed.

(c) *Contents of an application for a short-form nonexclusive license.* An application for a short-form nonexclusive license under § 1245.203(c) for a special invention shall include:

(1) Identification of invention for which license is desired, including the NASA patent case number, patent application serial number or patent number, title and date, if known;

(2) Name and address of company or organization applying for license; and

(3) Name and address of representative of applicant to whom correspondence should be sent.

§ 1245.207 Application for exclusive license.

(a) *Submission of application.* An application for exclusive license under § 1245.203(d) may be submitted to NASA at any time. An application for exclusive license shall be addressed to the NASA Assistant General Counsel for Patent Matters.

(b) *Contents of an application for exclusive license.* In addition to the requirements set forth in § 1245.206(b), the application for an exclusive license shall include:

(1) Applicant's status, if any, in any one or more of the following categories:

(i) Small business firm;

(ii) Minority business enterprise;

(iii) Location in a surplus labor area;

(iv) Location in a low-income urban area; and

(v) Location in an area designed by the Government as economically depressed.

(2) A statement indicating the time, expenditure, and other acts which the applicant considers necessary to achieve practical application of the invention, and the applicant's offer to invest that sum and to perform such acts if the license is granted;

(3) A statement whether the applicant would be willing to accept a license for all or less than all fields of use of the invention throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof.

(4) A statement indicating the amount of royalty fees or other consideration, if any, the applicant would be willing to pay the Government for the exclusive license; and

(5) Any other facts which the applicant believes to show it to be in the interests of the United States of America for the Administrator to grant an exclusive license rather than a nonexclusive li-

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cence and that such an exclusive license should be granted to the applicant.

§ 1245.208 Processing applications for license.

(a) *Initial review.* Applications for nonexclusive and exclusive licenses under §§ 1245.206 and 1245.207 will be reviewed by the Patent Counsel of the NASA installation having cognizance for the invention and the NASA Assistant General Counsel for Patent Matters, to determine the conformity and appropriateness of the application for license and the availability of the specific invention for the license requested. The Assistant General Counsel for Patent Matters will forward all applications for license conforming to §§ 1245.206(b) and 1245.207(b) to the NASA Inventions and Contributions Board when the invention is available for consideration of the requested license. Prior to forwarding applications for exclusive licenses to the Inventions and Contributions Board, notice in writing will be given to each nonexclusive licensee for the specific invention advising of the receipt of the application for the exclusive license and providing each nonexclusive licensee with a 30-day period for submitting either evidence that practical application of the invention has occurred or is about to occur or, an application for an exclusive license for the invention.

(b) *Recommendations of Inventions and Contributions Board.* The Inventions and Contributions Board shall, in accordance with the basic considerations set forth in §§ 1245.202 and 1245.203, evaluate all applications for license forwarded by the Assistant General Counsel for Patent Matters. Based upon the facts presented to the Inventions and Contributions Board in the application and any other facts in its possession, the Inventions and Contributions Board shall recommend to the Administrator: (1) Whether a nonexclusive or exclusive license should be granted, (2) the identity of the licensee, and (3) any special terms or conditions of the license.

(c) *Determination of Administrator and grant of nonexclusive licenses.* The Administrator shall review the recommendations of the Inventions and Contributions Board and shall determine whether to grant the nonexclusive license as recommended by the Board. If the Administrator determines to grant the license, the license will be granted upon the negotiation of the appropriate terms and conditions of the Office of General Counsel.

(d) *Determination of Administrator and grant of exclusive licenses—(1) Notice.* If the Administrator determines that the best interest of the United States will be served by the granting of an exclusive license in accordance with the basic considerations set forth in §§ 1245.202 and 1245.203, a notice shall be published in the FEDERAL REGISTER announcing the intent to grant the exclusive license, the identification of the invention, special terms or conditions of the proposed license, and a statement that NASA will grant the exclusive license unless within 30 days of the publication of such notice the Inventions and Contributions Board receives in writing

any of the following together with supporting documentation:

(i) A statement from any person setting forth reasons why it would not be in the best interest of the United States to grant the proposed exclusive license; or

(ii) An application for a nonexclusive license under such invention, in accordance with § 1245.206(b), in which applicant states that he has already brought or is likely to bring the invention to practical application within a reasonable period.

The Inventions and Contributions Board shall, upon receipt of a written request within the 30 days' notice period, grant an extension of 30 days for the submission of the documents designated above.

(2) *Recommendation of Inventions and Contributions Board.* Upon the expiration of the period required by subparagraph (1) of this paragraph, the Board shall review all written responses to the notice and shall then recommend to the Administrator whether to grant the exclusive license as the Board initially recommended or whether a different form of license, if any, should instead be granted.

(3) *Grant of exclusive licenses.* The Administrator shall review the Board's recommendation and shall determine if the interest of the United States would best be served by the grant of an exclusive license as recommended by the Board. If the Administrator determines to grant the exclusive license, the license will be granted upon the negotiation of the appropriate terms and conditions by the Office of General Counsel.

§ 1245.209 Royalties and fees.

(a) Normally, a nonexclusive license for the practical application of an invention granted to a U.S. citizen or company will not require the payment of royalties; however, NASA may require other consideration.

(b) An exclusive license for an invention may require the payment of royalties, fees or other consideration when the licensing circumstances and the basic considerations in § 1245.202, considered together, indicate that it is in the public interest to do so.

§ 1245.210 Reports.

A license shall require the licensee to submit periodic reports of his efforts to work the invention. The reports shall contain information within his knowledge, or which he may acquire under normal business practice, pertaining to the commercial use that is being made of the invention and such other information which the Administrator may determine pertinent to the licensing program and which is specified in the license.

§ 1245.211 Revocation of licenses.

(a) Any license granted pursuant to § 1245.203 may be revoked, either in part or in its entirety, by the Administrator if in his opinion the licensee at any time shall fail to use adequate efforts to bring to or achieve practical application of the invention in accordance with the terms of the license, or if the licensee at any

time shall default in making any report required by the license, or shall make any false report, or shall commit any breach of any covenant or agreement therein contained, and shall fail to remedy any such default, false report, or breach within 30 days after written notice, or if the patent is deemed unenforceable either by the Attorney General or a final decision of a U.S. court.

(b) Any license granted pursuant to § 1245.204(a) may be revoked, either in part or in its entirety, by the Administrator if in his opinion such revocation is necessary to achieve the earliest practical application of the invention pursuant to an application for exclusive license submitted in accordance with § 1245.207, or the licensee at any time shall breach any covenant or agreement contained in the license, and shall fail to remedy any such breach within 30 days after written notice thereof.

(c) Before revoking any license granted pursuant to this Subpart 2 for any cause, there will be furnished to the licensee a written notice of intention to revoke the license, and the licensee will be allowed 30 days after such notice in which to appeal and request a hearing before the Inventions and Contributions Board on the question of revocation. After a hearing, the Inventions and Contributions Board shall transmit to the Administrator the record of proceedings, its findings of fact, and its recommendation whether the license should be revoked either in part or in its entirety. The Administrator shall review the recommendation of the Board and determine whether to revoke the license in part or in its entirety. Revocation of a license shall include revocation of all sublicenses which have been granted.

§ 1245.212 Appeals.

Any person desiring to file an appeal pursuant to § 1245.211(c) shall address the appeal to Chairman, Inventions and Contributions Board. Any person filing an appeal shall be afforded an opportunity to be heard before the Inventions and Contributions Board, and to offer evidence in support of his appeal. The procedures to be followed in any such matter shall be determined by the Administrator. The Board shall make findings of fact and recommendations with respect to disposition of the appeal. The decision on the appeal shall be made by the Administrator, and such decision shall be final and conclusive, except on questions of law, unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence.

§ 1245.213 Litigation.

An exclusive licensee shall be granted the right to sue at his own expense any party who infringes the rights set forth in his license and covered by the licensed patent. The licensee may join the Government, upon consent of the Attorney General, as a party complainant in such suit, but without expense to the Government and the licensee shall pay costs and any final judgment or decree that may be rendered against the Govern-

PATENT LICENSING REGULATIONS

ment in such suit. The Government shall also have an absolute right to intervene in any such suit at its own expense. The licensee shall be obligated to promptly furnish to the Government, upon request, copies of all pleadings and other papers filed in any such suit and of evidence adduced in proceedings relating to the licensed patent including, but not limited to, negotiations for settlement and agreements settling claims by a licensee based on the licensed patent, and all other books, documents, papers, and

records pertaining to such suit. If, as a result of any such litigation, the patent shall be declared invalid, the licensee shall have the right to surrender his license and be relieved from any further obligation thereunder.

§ 1245.214 Address of communications.

(a) Communications to the Assistant General Counsel for Patent Matters in accordance with §§ 1245.206 and 1245.207 and requests for information concerning licenses for NASA inventions should be

addressed to the Assistant General Counsel for Patent Matters, Code GP, National Aeronautics and Space Administration, Washington, D.C. 20546.

(b) Communications to the Inventions and Contributions Board in accordance with §§ 1245.208, 1245.211, and 1245.212 should be addressed to Chairman, Inventions and Contributions Board, National Aeronautics and Space Administration, Washington, D.C. 20546.

Effective date. The regulations set forth in this subpart 2 are effective April 1, 1972.

JAMES C. FLETCHER,
Administrator.

NASA FOREIGN PATENT LICENSING REGULATIONS

Selected NASA inventions are also available for licensing in countries other than the United States in accordance with the NASA Foreign Patent Licensing Regulation (14 C.F.R. 1245.4), a copy of which is available from any NASA Patent Counsel.

TABLE OF CONTENTS

Section 1 • Abstracts

Subject Categories (1975-)

AERONAUTICS

Includes aeronautics (general); aerodynamics; air transportation and safety; aircraft communications and navigation; aircraft design, testing and performance; aircraft instrumentation; aircraft propulsion and power; aircraft stability and control; and research and support facilities (air).

For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery.

For related information see also *34 Fluid Mechanics and Heat Transfer*.

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents.

For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control.

For related information see also *17 Spacecraft Communications, Command and Tracking* and *32 Communications*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology.

For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments.

For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and on-board auxiliary power plants for aircraft.

For related information see also *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tube facilities; and engine test blocks.

For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS

Includes astronautics (general); astrodynamics; ground support systems and facilities (space); launch vehicles and space vehicles; space transportation; spacecraft communications, command and tracking; spacecraft design, testing and performance; spacecraft instrumentation; and spacecraft propulsion and power.

For related information see also *Aeronautics*.

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbit and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators.

For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; manned orbital laboratories; reusable vehicles; and space stations.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and rescue techniques.

For related information see also *03 Air Transportation and Safety* and *85 Urban Technology and Transportation*.

17 SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation; and radio blackout.

For related information see also *04 Aircraft Communications and Navigation* and *32 Communications*.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes spacecraft thermal and environmental control; and attitude control.

For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance* and *39 Structural Mechanics*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources.

For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

CHEMISTRY AND MATERIALS

Includes chemistry and materials (general); composite materials; inorganic and physical chemistry; metallic materials; nonmetallic materials; and propellants and fuels.

23 CHEMISTRY AND MATERIALS (GENERAL)

Includes biochemistry and organic chemistry.

24 COMPOSITE MATERIALS

Includes laminates.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry.

For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters, and oxidizers; storage and handling; and aircraft fuels.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

ENGINEERING

Includes engineering (general); communications; electronics and electrical engineering; fluid mechanics and heat transfer; instrumentation and photography; lasers and masers; mechanical engineering; quality assurance and reliability; and structural mechanics.

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; and cryogenics.

32 COMMUNICATIONS

Includes land and global communications; communications theory; and optical communications.

For related information see also *04 Aircraft Communications and Navigation* and *17 Spacecraft Communications, Command and Tracking*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry.

For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer; and ablation cooling.

For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gages; detectors; cameras and photographic supplies; and holography.

For aerial photography see *43 Earth Resources*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (non-power); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress.

For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES

Includes geosciences (general); earth resources; energy production and conversion; environment pollution; geophysics; meteorology and climatology; and oceanography.

For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography.

For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells and batteries; global sources of energy; fossil fuels; geophysical conversion; hydroelectric power; and wind power.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *85 Urban Technology and Transportation*.

45 ENVIRONMENT POLLUTION

Includes air, noise, thermal and water pollution; environment monitoring; and contamination control.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism.

For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic and physical oceanography; and marine resources.

LIFE SCIENCES

Includes life sciences (general); aerospace medicine; behavioral sciences; man/system technology and life support; and planetary biology.

51 LIFE SCIENCES (GENERAL)

Includes genetics.

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and weightlessness.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing.

55 PLANETARY BIOLOGY

Includes exobiology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

Includes mathematical and computer sciences (general); computer operations and hardware; computer programming and software; computer systems; cybernetics; numerical analysis; statistics and probability; systems analysis; and theoretical mathematics.

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes computer graphics and data processing.

For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, and algorithms.

62 COMPUTER SYSTEMS

Includes computer networks.

63 CYBERNETICS

Includes feedback and control theory.

For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS

Includes physics (general); acoustics; atomic and molecular physics; nuclear and high-energy physics; optics; plasma physics; solid-state physics; and thermodynamics and statistical physics.

For related information see also *Engineering*.

70 PHYSICS (GENERAL)

For geophysics see *46 Geophysics*. For astrophysics see *90 Astrophysics*. For solar physics see *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation.

For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory.

For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion.

For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity.

For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; and Bose and Fermi statistics.

For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES

Includes social sciences (general); administration and management; documentation and information science; economics and cost analysis; law and political science; and urban technology and transportation.

80 SOCIAL SCIENCES (GENERAL)

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information storage and retrieval technology; micrography; and library science.

For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW AND POLITICAL SCIENCE

Includes space law; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation.

For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*.

SPACE SCIENCES

Includes space sciences (general); astronomy; astrophysics; lunar and planetary exploration; solar physics; and space radiation.

For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)**89 ASTRONOMY**

Includes radio and gamma-ray astronomy; celestial mechanics; and astrometry.

90 ASTROPHYSICS

Includes cosmology; and interstellar and interplanetary gases and dust.

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology; and manned and unmanned flights.

For spacecraft design see *18 Spacecraft Design, Testing and Performance*. For space stations see *15 Launch Vehicles and Space Vehicles*.

92 SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts.

For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL**99 GENERAL**

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Subject Categories

(1969–1974)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft (e.g., ground effect machines, STOL, and VTOL); flight tests; operating problems (e.g., sonic boom); safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences

Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology

Includes life support systems, human engineering, protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry

Includes chemical analysis and identification (e.g., spectroscopy). For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications

Includes communications equipment and techniques, noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers

Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment

Includes electronic test equipment and maintainability; component parts, e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications and 21 Navigation.

10 Electronics

Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support

Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities (e.g., rocket engine test stands, shock tubes, and wind tunnels); test ranges; and tracking stations.

12 Fluid Mechanics

Includes boundary-layer flow; compressible flow gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics

Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gages; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers

Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic

Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic

Includes corrosion; physical and mechanical properties of materials (e.g., plastics); and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics

Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology

Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation

Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General

Includes acoustics, Cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics, 20 Meteorology, and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma

Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State

Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants

Includes fuels; igniters; and oxidizers. For basic re-

search see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also: 28 Propulsion Systems.

28 Propulsion Systems

Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation

Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics, and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences

Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles

Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics

Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

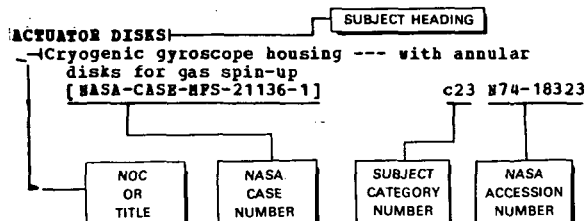
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Section 2

Typical Subject Index Listing



The subject heading is the key to the subject content of the document. A brief description of the document, e.g., title, title plus a title extension, or Notation of Content (NOC), is included for each subject entry to indicate the subject heading context; these descriptions are arranged under each subject heading in ascending accession number order. The NASA Case Number serves as the prime access number to the patent documents. The Subject Category Number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The NASA accession number denotes the number by which the citation is identified within the subject category.

A

ABLATION

Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding [NASA-CASE-XMS-02677] c31 N70-42075

Hypersonic test facility for studying ablation in models under high pressure and high temperature [NASA-CASE-XLA-00378] c11 N71-15925

Design of hypersonic test facility for ablation tests and performance tests of vehicles under conditions of high temperature and pressure [NASA-CASE-XLA-05378] c11 N71-21475

Ablation sensor for measuring char layer recession rate using electric wires [NASA-CASE-XLA-01794] c33 N71-21586

Ablation sensor for measuring surface ablation rate of material on vehicles entering earths atmosphere on entry into planetary atmospheres [NASA-CASE-XLA-01791] c14 N71-22991

Ablative system with liquid carrying ablative material bodies and forming self-replacing ablative surface [NASA-CASE-LEW-10359] c33 N72-25911

ABLATIVE MATERIALS

Filling honeycomb matrix with deaerated paste filler [NASA-CASE-XMS-01108] c15 N69-24322

Sensor device with switches for measuring surface recession of charring and noncharring ablators [NASA-CASE-XLA-01781] c14 N69-39975

Vacuum method for molding thermosetting compounds used as ablative materials [NASA-CASE-XLA-01091] c15 N71-10672

Ablative resins used for retarding regression in ablative material [NASA-CASE-XLE-05913] c33 N71-14032

Design, development, and characteristics of ablation structures [NASA-CASE-XMS-01816] c33 N71-15623

Method and apparatus for fabrication of heat insulating and ablative reentry structure [NASA-CASE-XMS-02009] c33 N71-20834

Production and application of sprayable fiber reinforced ablation material [NASA-CASE-XLA-04251] c18 N71-26100

Ablative heat shield for protection from aerodynamic heating of reentry spacecraft [NASA-CASE-MSC-12143-1] c33 N72-17947

Ablative system with liquid carrying ablative material bodies and forming self-replacing

ablative surface [NASA-CASE-LEW-10359] c33 N72-25911
Carrier liquid system containing bodies of ablative material [NASA-CASE-LEW-10359-2] c33 N73-25952

Ablation article and surface for analyzing flow transition on ablative surface [NASA-CASE-LAR-10439-1] c33 N73-27796

Dual measurement ablation sensor [NASA-CASE-LAR-10105-1] c33 N74-15652

ABORT APPARATUS

Coupling device for linear shaped charge for space vehicle abort system [NASA-CASE-XLA-00189] c33 N70-36846

ABRASION RESISTANCE

Zinc dust formulation for abrasion resistant steel coatings [NASA-CASE-GSC-10361-1] c18 N72-23581

ABSORBENTS

Absorbent apparatus for separating gas from liquid-gas stream used in environmental control under zero gravity conditions [NASA-CASE-XMS-01492] c05 N70-41297

Fluid flow control valve for regulating fluids in molecular quantities [NASA-CASE-XLE-00703] c15 N71-15967

Noncontaminating swab with absorbent end covered with netted envelope to prevent egress of absorbent material [NASA-CASE-MFS-18100] c15 N72-11390

Protein sterilization of firefly luciferase without denaturation [NASA-CASE-GSC-10225-1] c06 N73-27086

ABSORBERS (MATERIALS)

Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures [NASA-CASE-XMS-05303] c07 N69-27462

Analytical photoionization mass spectrometer with argon gas filter between light source and monochromator [NASA-CASE-LAR-10180-1] c06 N71-13461

Development of filter system for control of outgas contamination in vacuum conditions using absorbent beds of molecular sieve zeolite, silica gel, and charcoal [NASA-CASE-MFS-14711] c15 N71-26185

Development and characteristics of calorimeter with integral heat sink for maintenance of constant temperature [NASA-CASE-XMF-04208] c33 N71-29051

ABSORPTION

Cross linked polymer system for oil or fat absorption properties [NASA-CASE-NPO-11609-1] c06 N72-22114

Method and apparatus for background signal reduction in opto-acoustic absorption measurement [NASA-CASE-NPO-13683-1] c35 N75-29383

ABSORPTION CROSS SECTIONS

Radiation source and detection system for measuring amount of liquid inside tanks independently of liquid configuration [NASA-CASE-MSC-12280] c27 N71-16348

ABSORPTION SPECTRA

A method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector [NASA-CASE-ARC-10631-1] c14 N74-34864

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Scattering independent determination of absorption and emission coefficients and radiative equilibrium state [NASA-CASE-NPO-13677-1] c35 N75-16791

AC GENERATORS

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- Alternating current signal generator providing plurality of amplitude modulated output signals
[NASA-CASE-IMP-05612] c09 N69-21468
- Improved alternator with windings of superconducting materials acting as permanent magnet
[NASA-CASE-XLE-02824] c03 N69-39890
- Superconducting alternator design with cryogenic fluid for cooling windings below critical temperature
[NASA-CASE-XLE-02823] c09 N71-23443
- ACCELERATION**
- Single grid accelerator system for electron bombardment type ion thruster
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- ACCELERATION (PHYSICS)**
- Centrifuge mounted motion simulator with elevator mechanism
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- Gravity device for accurate and rapid indication of relative gravity conditions aboard accelerating carrier
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[NASA-CASE-ARC-10806] c14 N74-27872
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- Development of method for producing artificial gravity in manned spacecraft
[NASA-CASE-IMP-02595] c31 N71-21881
- ACCELERATION TOLERANCE**
- Electronic detection system for peak acceleration limits in vibrational testing of spacecraft components
[NASA-CASE-NPO-10556] c14 N71-27185
- ACCELERATORS**
- Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c09 N75-11997
- ACCELEROMETERS**
- Superconductive accelerometer employing variable force principle to determine acceleration of bodies
[NASA-CASE-IMP-01099] c14 N71-15969
- Describing device for velocity control of electromechanical drive mechanism of scanning mirror of interferometer
[NASA-CASE-XGS-03532] c14 N71-17627
- Omnidirectional liquid filled accelerometer design with liquid and housing temperature compensation
[NASA-CASE-HQN-10780] c14 N71-30265
- Development of combined velocimeter and accelerometer based on color changes in liquid crystalline material subjected to shear stresses
[NASA-CASE-ERC-10292] c14 N72-25410
- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c14 N74-15094
- Recording apparatus
[NASA-CASE-LAR-11353-1] c14 N74-20020
- Accelerometer telemetry system --- for monitoring motor responses
[NASA-CASE-ARC-10849-1] c35 N75-20685
- ACCEPTOR MATERIALS**
- The 3-5 photocathode with nitrogen doping for increased quantum efficiency --- using acceptor materials
[NASA-CASE-NPO-12134-1] c33 N75-16745
- ACCUMULATORS**
- Direct radiation cooling of linear beam collector tubes
[NASA-CASE-IMP-09227] c15 N69-24319
- Regenerative cooling system for small rocket engine having restart capability and using noncryogenic hypergolic propellants
[NASA-CASE-XLE-00685] c28 N70-41992
- Small plasma probe using tungsten wire collector in tubular shield
[NASA-CASE-XLE-02578] c25 N71-20747
- Electrostatic charged particle collector containing stacked electrodes for microwave tube
[NASA-CASE-LEW-11192-1] c09 N73-13208
- ACETALS**
- Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-IMP-08652] c06 N71-11243
- ACETYLENE**
- Preparation of dicyanoacetylene and vinylidene copolymers using organic compounds
[NASA-CASE-IMP-03250] c06 N71-23500
- ACOUSTIC DUCTS**
- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c02 N74-32418
- ACOUSTIC IMPEDANCE**
- Method and transducer device for detecting presence of hydrogen gas
[NASA-CASE-IMP-03873] c06 N69-39733
- ACOUSTIC MEASUREMENTS**
- Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c35 N75-27334
- ACOUSTIC PROPAGATION**
- Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c12 N75-24774
- ACOUSTIC PROPERTIES**
- Development of wind tunnel microphone structure to minimize effects of vibrations and eliminate unwanted signals in microphone output
[NASA-CASE-IMP-00250] c11 N71-28779
- Acoustical transducer calibrating system including differential pressure activating device
[NASA-CASE-FRC-10060-1] c14 N73-27379
- ACOUSTO-OPTICS**
- Acoustic vibration test apparatus for wiring harnesses
[NASA-CASE-MSC-15158-1] c14 N72-17325
- ACRYLATES**
- Ablative resins used for retarding regression in ablative material
[NASA-CASE-XLE-05913] c33 N71-14032
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- Heat activated emf cells with aluminum anode
[NASA-CASE-LEW-11359] c03 N71-28579
- Heat activated cell with aluminum anode
[NASA-CASE-LEW-11359-2] c03 N72-20034
- ACTUATOR DISKS**
- Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MPS-21136-1] c23 N74-18323
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- Electromechanical actuator and its use in rocket thrust control valve
[NASA-CASE-IMP-05975] c15 N69-23185
- Power controlled bimetallic electromechanical actuator for accurate, timely, and reliable response to remote control signal
[NASA-CASE-IMP-09776] c09 N69-39929
- Patent data on gas actuated bolt disconnect assembly
[NASA-CASE-XLA-00326] c03 N70-34667
- Hermetically sealed explosive release mechanism for actuator device
[NASA-CASE-XGS-00824] c15 N71-16078
- Burst diaphragm flow initiator for installation in short duration wind tunnels
[NASA-CASE-MPS-12915] c11 N71-17600

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- Hand controller operable about three
respectively perpendicular axes and capable of
actuating signal generators for attitude
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[NASA-CASE-XMS-07487] c15 N71-23255
- Mechanical actuator wherein linear motion
changes to rotational motion
[NASA-CASE-XGS-04548] c15 N71-24045
- Hydraulic actuator design for space deployment
of heat radiators
[NASA-CASE-MS-C-11817-1] c15 N71-26611
- Electromechanical control actuator system using
double differential screws
[NASA-CASE-ERC-10022] c15 N71-26635
- System to control speed of hydraulically movable
members by limiting energy applied to
actuators with hydraulic servo loop
[NASA-CASE-ARC-10131-1] c15 N71-27754
- Zero power telemetry actuated switch for
biomedical equipment
[NASA-CASE-ARC-10105] c09 N72-17153
- Mechanically operated hand which can depress
trigger using touch control device
[NASA-CASE-MFS-20413] c15 N72-21463
- Hermetically sealed elbow actuator for use in
severe environments
[NASA-CASE-MFS-14710] c09 N72-22195
- Characteristics of lightweight actuator for
imparting linear motion using elongated output
shaft
[NASA-CASE-NPO-11222] c15 N72-25456
- Rotary actuator for use in environments with no
rolling and sliding friction
[NASA-CASE-NPO-10244] c15 N72-26371
- Gas-operated actuator with cyclic motion of
expansion chamber
[NASA-CASE-NPO-11340] c15 N72-33477
- Redundant hydraulic control system for actuators
with three main valve combination
[NASA-CASE-MFS-20944] c15 N73-13466
- Actuator operated by electrolytic drive gas
generator and evacuator
[NASA-CASE-NPO-11369] c15 N73-13467
- Manual actuator --- for spacecraft exercising
machines
[NASA-CASE-MFS-21481-1] c15 N74-18127
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[NASA-CASE-NPO-13105-1] c15 N74-21060
- Miniature hydraulic actuator --- for control
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[NASA-CASE-LAR-11522-1] c15 N74-34881
- Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c37 N75-29430
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c54 N75-32767
- ADAPTERS**
Camera adapter design for image magnification
including lens and illuminator
[NASA-CASE-XMF-03844-1] c14 N71-26474
- ADAPTIVE CONTROL**
Self testing and repairing computer comprising
control and diagnostic unit and rollback
points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633
- Synchronous dc direct-drive system comprising
multiple-loop hybrid control system
controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136
- Versatile ergometer with work load control
[NASA-CASE-MFS-21109-1] c05 N73-27941
- Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c08 N74-14920
- ADAPTIVE FILTERS**
Adaptive notch filter, using modulation
techniques for reversed phase noise signal
[NASA-CASE-XMF-01892] c10 N71-22986
- ADDING CIRCUITS**
Circuit diagram and operation of full binary adder
[NASA-CASE-XGS-00689] c08 N70-34787
- Error correction circuitry for binary signal
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[NASA-CASE-XNP-03263] c09 N71-18843
- ADDITIVES**
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organic Cu/II/ chelate catalytic additive
[NASA-CASE-LAR-10173-1] c27 N71-14090
- ADENOSINE TRIPHOSPHATE**
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inherent light levels of ATP in luciferase
compositions
[NASA-CASE-XGS-05533] c04 N69-27487
- Detection instrument for light emitted from ATP
biochemical reaction
[NASA-CASE-XGS-05534] c23 N71-16355
- Describing method for lyophilization of
luciferase containing mixtures for use in life
detection reactions
[NASA-CASE-XGS-05532] c06 N71-17705
- Automatic device for assaying urine on bacterial
adenosine triphosphate content
[NASA-CASE-GSC-11169-2] c05 N73-32011
- Application of luciferase assay for ATP to
antimicrobial drug susceptibility testing
[NASA-CASE-GSC-12039-1] c51 N75-26629
- ADHESION**
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adhesive coated head portion
[NASA-CASE-MFS-20299] c15 N72-11392
- ADHESION TESTS**
Apparatus for determining quality of bond
between high density material and low density
material
[NASA-CASE-MFS-13686] c15 N71-18132
- ADHESIVE BONDING**
Fabrication of solar cell banks for attaching
solar cells to base members or substrates
[NASA-CASE-XNP-00826] c03 N71-20895
- Method for honeycomb panel bonding by
thermosetting film adhesive with electrical
heat means
[NASA-CASE-XMF-01402] c18 N71-21651
- Etching aluminum alloys with aqueous solution
containing sulfuric acid, hydrofluoric acid,
and an alkali metal dichromate for adhesive
bonding
[NASA-CASE-XMF-02303] c17 N71-23828
- Adhesive spray process for attaching biomedical
skin electrodes
[NASA-CASE-XPF-07658-1] c05 N71-26293
- Bonding of sapphire to sapphire by eutectic
mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992
- Thermal insulation attaching means
[NASA-CASE-MSC-12619-1] c39 N75-21671
- ADHESIVES**
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[NASA-CASE-LAR-11397-1] c27 N75-29263
- ADJUSTING**
Centering device with ultrafine adjustment for
use with roundness measuring apparatus
[NASA-CASE-XMF-00480] c14 N70-39898
- Slotted fine-adjustment support for optical
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[NASA-CASE-MFS-20249] c15 N72-11386
- Adjustable support device with jacket screw for
altering distance between base and supported
member
[NASA-CASE-NPO-10721] c15 N72-27484
- Clock setter
[NASA-CASE-LAR-11458-1] c14 N74-32882
- AERODYNAMIC BRAKES**
Bluff-shaped annular configuration for
supersonic decelerator for reentry vehicles
[NASA-CASE-XLE-00222] c02 N70-37939
- Lightweight, variable solidity knitted parachute
fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c02 N74-10034
- AERODYNAMIC CHARACTERISTICS**
Variable aspect ratio and variable sweep delta
wing planforms for supersonic aircraft
[NASA-CASE-XLA-00221] c02 N70-33266
- Designing spacecraft for flight into space,
atmospheric reentry, and landing at selected
sites
[NASA-CASE-XAC-02058] c02 N71-16087
- Spacecraft configurations and aerodynamic
characteristics of space shuttle systems with
two reusable stages
[NASA-CASE-MSC-12433] c31 N73-14854
- Characteristics of system for providing yaw
control of vehicles at high supersonic and
hypersonic speeds by deflecting flaps mounted
on upper wing surface
[NASA-CASE-LAR-11140-1] c02 N73-20008
- AERODYNAMIC CONFIGURATIONS**
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variable aspect ratio and variable sweep wings
[NASA-CASE-XLA-00166] c02 N70-34178

- Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858
- Manned space capsule configuration for orbital flight and atmospheric reentry
[NASA-CASE-XLA-00149] c31 N70-37938
- Aerodynamic configuration of reentry vehicle heat shield to provide longitudinal and directional stability at hypersonic velocities
[NASA-CASE-XMS-04142] c31 N70-41631
- Development and characteristics of translating horizontal tail assembly for supersonic aircraft
[NASA-CASE-XLA-08801-1] c02 N71-11043
- Variable geometry manned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings
[NASA-CASE-XLA-03691] c31 N71-15674
- Afterburner-equipped jet engine nacelle with slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493
- Variable geometry rotor system for direct control over wake vortex
[NASA-CASE-LAR-10557] c02 N72-11018
- Development of auxiliary lifting system to provide ferry capability for entry vehicles
[NASA-CASE-LAR-10574-1] c11 N73-13257
- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMP-02263] c02 N74-10907
- Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c28 N74-28226
- AERODYNAMIC HEATING**
- Development of thermal insulation system for wing and control surfaces of hypersonic aircraft and reentry vehicles
[NASA-CASE-XLA-00892] c33 N71-17897
- Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XPR-03802] c33 N71-23085
- Ablative heat shield for protection from aerodynamic heating of reentry spacecraft
[NASA-CASE-MSC-12143-1] c33 N72-17947
- AERODYNAMIC LOADS**
- Directed fluid stream for propeller blade loading control
[NASA-CASE-XAC-00139] c02 N70-34856
- AERODYNAMIC NOISE**
- Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MPS-23099-1] c09 N75-32134
- AERODYNAMIC STABILITY**
- Aerodynamically stable meteorological balloon using surface roughness effect
[NASA-CASE-XMP-04163] c02 N71-23007
- Pressure sensor network for measuring liquid dynamic response in flight including fuel tank acceleration, liquid slosh amplitude, and fuel depth monitoring
[NASA-CASE-XLA-05541] c12 N71-26387
- Spacecraft design with single point aerodynamic and hydrodynamic stability for emergency transport of men from space station to splashdown
[NASA-CASE-MSC-13281] c31 N72-18859
- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c02 N74-34475
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914
- AERONAUTICAL ENGINEERING**
- Differential pressure cell insensitive to changes in ambient temperature and extreme overload
[NASA-CASE-XAC-00042] c14 N70-34816
- AEROSOLS**
- Liquid aerosol dispenser with explosively driven piston to compress light gas to extremely high pressure
[NASA-CASE-MPS-20829] c12 N72-21310
- Particulate and aerosol detector --- based on discharge characteristics of charged capacitor under particle impact
[NASA-CASE-LAR-11434-1] c14 N74-22112
- AEROSPACE ENGINEERING**
- Modifying existing solar cells for temperature control
[NASA-CASE-NPO-10109] c03 N71-11049
- Metallic film diffusion for boundary lubrication in aerospace engineering
[NASA-CASE-XLE-10337] c15 N71-24046
- Soldering device particularly suited to making high quality wiring joints for aerospace engineering utilizing capillary attraction to regulate flow of solder
[NASA-CASE-XLA-08911] c15 N71-27214
- AEROSPACE ENVIRONMENTS**
- High voltage insulators for direct current in acceleration system of electrostatic thruster
[NASA-CASE-XLE-01902] c28 N71-10574
- Metallic film diffusion into metal or ceramic surfaces for boundary lubrication in aerospace environments
[NASA-CASE-XLE-01765] c18 N71-10772
- Preparation of inorganic solid film lubricants with long wear life and stability in aerospace environments
[NASA-CASE-XMP-03988] c15 N71-21403
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[NASA-CASE-XMS-04201] c14 N71-22990
- Metal alloy bearing materials for space applications
[NASA-CASE-XLE-05033] c15 N71-23810
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[NASA-CASE-XMP-05524] c33 N71-24876
- Space environment simulator for testing spacecraft components under aerospace conditions
[NASA-CASE-NPO-10141] c11 N71-24964
- High dc switch for causing abrupt, cyclic, decreases of current to operate under zero or varying gravity conditions
[NASA-CASE-LEW-10155-1] c09 N71-29035
- AEROSPACE MEDICINE**
- Piston device for producing known constant positive pressure within lungs by using thoracic muscles
[NASA-CASE-XMS-01615] c05 N70-41329
- AEROSPACE SYSTEMS**
- Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MPS-22355] c06 N74-29480
- AEROSPACE VEHICLES**
- Aerospace configuration with low and high aspect ratio variability for high and low speed flight
[NASA-CASE-XLA-00142] c02 N70-33286
- Landing pad assembly for aerospace vehicles
[NASA-CASE-XMP-02853] c31 N70-36654
- Aerospace vehicle with variable planform for hypersonic and subsonic flight
[NASA-CASE-XLA-00805] c31 N70-38010
- Development of resilient fastener for attaching skin of aerospace vehicles to permit movement of skin relative to framework
[NASA-CASE-XLA-01027] c31 N71-24035
- Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547
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[NASA-CASE-XMP-02263] c02 N74-10907
- AFTERBODIES**
- Afterburner-equipped jet engine nacelle with slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493
- AFTERBURNING**
- Exhaust nozzle with afterburning for generating thrust
[NASA-CASE-XLA-00154] c28 N70-33374
- AGING (MATERIALS)**
- Method of heat treating age-hardenable alloys
[NASA-CASE-XMP-01311] c26 N75-29236
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[NASA-CASE-XAC-10019] c15 N71-23809
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for producing magnetic field in air
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annular air column surrounding low velocity,
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[NASA-CASE-XMF-03212] c15 N71-22721
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[NASA-CASE-GSC-11445-1] c15 N74-27902
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for maximum cooling efficiency
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[NASA-CASE-LAR-11674-1] c28 N74-33220
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[NASA-CASE-XLA-01353] c14 N70-41366
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[NASA-CASE-LAR-10612-1] c12 N73-28144
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and egress of astronaut without subjecting
vehicular environment to vacuum of space
[NASA-CASE-XLA-02050] c31 N71-22968
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control thrusters by use of portable air locks
[NASA-CASE-MFS-20325] c28 N71-27095
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[NASA-CASE-MFS-20922-1] c15 N74-22136
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with argon gas filter between light source and
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heterodyne radiometer transmitter-receiver
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the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c35 N75-11308
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nitrogen dioxide, carbon dioxide
[NASA-CASE-LAR-11405-1] c35 N75-15938
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[NASA-CASE-NPO-13231-1] c45 N75-27585
- AIR PURIFICATION**
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[NASA-CASE-MFS-12806] c14 N71-17588
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filters
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using synchronous satellite for data relay
between vehicles and ground station
[NASA-CASE-GSC-10087-1] c02 N71-19287
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system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948
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traffic control involving supersonic transports
[NASA-CASE-GSC-10087-3] c07 N72-12080
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highly reflective to electromagnetic
radiation, and adaptable for erection and
deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063
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airborne imaging radar system
[NASA-CASE-NFO-13587-1] c32 N75-26206
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aircraft
[NASA-CASE-ERC-10226-1] c14 N73-16483
- AIRCRAFT ACCIDENTS**
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system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948
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flight
[NASA-CASE-XFR-03107] c09 N71-19449
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operation
[NASA-CASE-ARC-10470-1] c02 N73-26005
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[NASA-CASE-LAR-11087-1] c02 N73-26008
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vertical takeoff aircraft using reaction
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- Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control
[NASA-CASE-XAC-10019] c15 N71-23809
- Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft
[NASA-CASE-LAR-10249-1] c02 N71-26110
- Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088
- Development of aircraft control system with high performance electrically controlled and mechanically operated hydraulic valves for precise flight operation
[NASA-CASE-XAC-00048] c02 N71-29128
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[NASA-CASE-MSC-13397-1] c21 N72-25595
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- Situational display system of cathode ray tubes to assist pilot in aircraft control
[NASA-CASE-ERC-10350] c14 N73-20474
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[NASA-CASE-LAR-10682-1] c02 N73-26004
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914
- AIRCRAFT DESIGN**
- Design of supersonic aircraft with novel fixed, swept wing planform
[NASA-CASE-XLA-04451] c02 N71-12243
- Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ARC-10470-1] c02 N73-26005
- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMP-02263] c02 N74-10907
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914
- AIRCRAFT DETECTION**
- Surface based altitude measuring system for accurately measuring altitude of airborne vehicle
[NASA-CASE-ERC-10412-1] c09 N73-12211
- AIRCRAFT ENGINES**
- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c02 N74-32418
- AIRCRAFT EQUIPMENT**
- Development of radiometric sensor to warn aircraft pilots of region of clear air turbulence along flight path
[NASA-CASE-ERC-10081] c14 N72-28437
- Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c02 N74-26456
- AIRCRAFT GUIDANCE**
- Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c21 N74-13420
- AIRCRAFT HAZARDS**
- Deflector for preventing objects from entering nacelle inlets of jet aircraft
[NASA-CASE-XLE-00388] c28 N70-34788
- AIRCRAFT HYDRAULIC SYSTEMS**
- Variable-orifice hydraulic mechanism for aircraft gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c28 N73-19793
- AIRCRAFT INSTRUMENTS**
- Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XLA-00100] c14 N70-36807
- Pressure probe for sensing ambient static air pressures
[NASA-CASE-XLA-00481] c14 N70-36824
- Aircraft indicator for pilot control of takeoff roll, climbout path and verticle flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157
- Optical projector system for establishing optimum arrangement of instrument displays in aircraft, spacecraft, other vehicles, and industrial instrument consoles
[NASA-CASE-XNP-03853] c23 N71-21882
- Combined optical attitude and altitude indicating instrument for use in aircraft or spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268
- Aircraft horizon and vertical indicator
[NASA-CASE-ERC-10392] c21 N73-14692
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c06 N75-12947
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381
- AIRCRAFT LANDING**
- Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858
- Magnetic method for detection of aircraft position relative to runway
[NASA-CASE-ARC-10179-1] c21 N72-22619
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930
- AIRCRAFT MANEUVERS**
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381
- AIRCRAFT MODELS**
- Free flight suspension system for use with aircraft models in wind tunnel tests
[NASA-CASE-XLA-00939] c11 N71-15926
- Variable geometry wind tunnel for testing aircraft models at subsonic speeds
[NASA-CASE-XLA-07430] c11 N72-22246
- Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c33 N75-12195
- AIRCRAFT NOISE**
- Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c35 N75-27334
- AIRCRAFT PERFORMANCE**
- Development of auxiliary lifting system to provide ferry capability for entry vehicles
[NASA-CASE-LAR-10574-1] c11 N73-13257
- AIRCRAFT PILOTS**
- Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c11 N74-30597
- AIRCRAFT SAFETY**
- Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XLA-00100] c14 N70-36807
- Development and operating principles of collision warning system for aircraft accident prevention
[NASA-CASE-HQN-10703] c21 N73-13643
- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c02 N74-30421
- AIRCRAFT STABILITY**
- Mechanical stabilization system for VTOL aircraft
[NASA-CASE-XLA-06339] c02 N71-13422
- Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004
- AIRCRAFT STRUCTURES**
- Fatigue testing device applying random discrete load levels to test specimen and applicable to aircraft structures
[NASA-CASE-XLA-02131] c32 N70-42003
- Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XPR-03802] c33 N71-23085
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c14 N74-13129
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c18 N74-16249
- AIRFOIL PROFILES**
- Airfoil with cambered trailing edge section for

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- supersonic flight
[NASA-CASE-LAR-10585-1] c01 N73-14981
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[NASA-CASE-XLA-00755] c01 N71-13410
Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-05828] c01 N71-13411
Single wing supersonic aircraft --- with pivotal attachment of airfoil
[NASA-CASE-ARC-10470-3] c01 N74-30414
Miniature hydraulic actuator --- for control surfaces on airfoils
[NASA-CASE-LAR-11522-1] c15 N74-34881
- AIRFRAMES**
Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ARC-10470-1] c02 N73-26005
- AIRSPEED**
Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858
- ALCOHOLS**
New trifunctional alcohol derived from trimer acid and novel method of preparation
[NASA-CASE-NPO-10714] c06 N69-31244
Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol
[NASA-CASE-MFS-20180] c16 N72-12440
- ALDEHYDES**
Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-XMP-08655] c06 N71-11239
Synthesis of azine polymers for heat shields by azine-aromatic aldehyde reaction
[NASA-CASE-XMP-08656] c06 N71-11242
Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-XMP-03074] c06 N71-24740
- ALIGNMENT**
Centering device with ultrafine adjustment for use with roundness measuring apparatus
[NASA-CASE-XMP-00480] c14 N70-39898
Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-XMP-01452] c15 N70-41371
Electro-optical/computer system for aligning large structural members and maintaining correct position
[NASA-CASE-XNP-02029] c14 N70-41955
Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references
[NASA-CASE-XMP-00684] c21 N71-21688
Description of device for aligning stacked sheets of paper for repetitive cutting
[NASA-CASE-XMS-04178] c15 N71-22798
Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125
Measuring roll alignment of test body with respect to reference body
[NASA-CASE-GSC-10514-1] c14 N72-20379
Guide accessories for correctly aligning paper in typewriter to correct typographical errors
[NASA-CASE-MFS-15218-1] c15 N73-31438
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[NASA-CASE-ARC-10444-1] c16 N73-33397
- ALKALI METALS**
Ultraviolet radiation resistant alkali-metal silicate coatings for temperature control of spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979
Analytical test apparatus and method for determining oxygen content in alkali liquid metal
[NASA-CASE-XLE-01997] c06 N71-23527
- Composition and production method of alkali metal silicate paint with ultraviolet reflection properties
[NASA-CASE-XGS-04799] c18 N71-24183
Design and characteristics of heat activated electric cell with anode made from one or more alkali metals and cathode made from oxidizing material
[NASA-CASE-LEW-11358] c03 N71-26084
Method for producing alkali metal dispersions of high purity
[NASA-CASE-XNP-08876] c17 N73-28573
- ALKALINE BATTERIES**
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[NASA-CASE-XNP-01464] c03 N71-10728
Alkaline-type coulometer cell for primary charge control in secondary battery recharge circuits
[NASA-CASE-XGS-05434] c03 N71-20491
- ALKYL COMPOUNDS**
Preparation of fluorohydroxy ethers by reacting fluoroalkylene oxides with alkali salt of polyfluoroalkylene diol
[NASA-CASE-MFS-10507] c06 N73-30101
- ALLOYS**
Brazing alloy adapted for brazing corrosion resistant steel to refractory metals, also for brazing refractory metals to other refractory metals
[NASA-CASE-XNP-03063] c17 N71-23365
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[NASA-CASE-XLE-05033] c15 N71-23810
High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875
Adjustable rigid mount for trihedral mirror formed of alloy with small coefficient of thermal expansion supporting screws and spring-biased plates
[NASA-CASE-XNP-08907] c23 N71-29123
Two-step diffusion welding process of unrecrystallized alloys
[NASA-CASE-LEW-11388-1] c15 N73-32358
Brazing alloy binder
[NASA-CASE-XMP-05868] c26 N75-27125
Brazing alloy
[NASA-CASE-XNP-03878] c26 N75-27127
- ALPHANUMERIC CHARACTERS**
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c33 N75-19517
- ALTERNATING CURRENT**
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[NASA-CASE-LAR-10218-1] c09 N70-34559
Frequency control network for current feedback oscillators converting dc voltage to ac or higher dc voltages
[NASA-CASE-GSC-10041-1] c10 N71-19418
Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
Solid state circuit for switching alternating current input signal as function of direct current gating transistor
[NASA-CASE-XNP-06505] c10 N71-24799
Device for voltage conversion using controlled pulse widths and arrangements to generate ac output voltage
[NASA-CASE-MFS-10068] c10 N71-25139
Inverters for changing direct current to alternating current
[NASA-CASE-XGS-06226] c10 N71-25950
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[NASA-CASE-GSC-11126-1] c09 N72-25253
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[NASA-CASE-MSC-17832-1] c10 N74-14956
- ALTITUDE**
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- ALTITUDE CONTROL**
Ambient atmospheric pressure sensing device for

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- determining altitude of flight vehicles
[NASA-CASE-XLA-00128] c15 N70-37925
- ALUMINUM**
- Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443
- Low concentration alkaline solution treatment of aluminum with metal phosphate surface coatings to improve chemical bonding and reduce coating weight
[NASA-CASE-XLA-01995] c18 N71-23047
- Etching aluminum alloys with aqueous solution containing sulfuric acid, hydrofluoric acid, and an alkali metal dischromate for adhesive bonding
[NASA-CASE-XMP-02303] c17 N71-23828
- Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
- Nickel plating onto etched aluminum castings
[NASA-CASE-XNP-04148] c17 N71-24830
- Method of plating copper on aluminum to permit conventional soldering of structural aluminum bodies
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- Heat activated eaf cells with aluminum anode
[NASA-CASE-LEW-11359] c03 N71-28579
- Heat activated cell with aluminum anode
[NASA-CASE-LEW-11359-2] c03 N72-20034
- A panel for selectively absorbing solar thermal energy and the method for manufacturing the panel
[NASA-CASE-MFS-22562-1] c03 N74-19700
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c24 N75-28135
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[NASA-CASE-XMP-02786] c17 N71-20743
- Etching aluminum alloys with aqueous solution containing sulfuric acid, hydrofluoric acid, and an alkali metal dischromate for adhesive bonding
[NASA-CASE-XMP-02303] c17 N71-23828
- Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c15 N74-20071
- ALUMINUM COATINGS**
- Intermetallic chromium containing nickel aluminide for high temperature corrosion protection of stainless steels
[NASA-CASE-LEW-11267-1] c17 N73-32414
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c27 N74-33209
- Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c37 N75-13261
- Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c26 N75-19408
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c35 N75-33367
- ALUMINUM OXIDES**
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-2] c15 N74-34002
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992
- ALUMINUM SILICATES**
- White paint production by heating impure aluminum silicate clay having low solar absorptance
[NASA-CASE-XNP-02139] c18 N71-24184
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- Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-XMP-08655] c06 N71-11239
- Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-XMP-08652] c06 N71-11243
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c06 N74-12812
- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c25 N75-12086
- AMINO ACIDS**
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c25 N75-14844
- AMMONIA**
- Solid state chemical source for ammonia beam masers
[NASA-CASE-XGS-01504] c16 N70-41578
- Low to high temperature energy conversion system --- using ammonia
[NASA-CASE-NPO-13510-1] c44 N75-16972
- AMMONIUM PERCHLORATES**
- Ammonium perchlorate composite propellant with organic Cu/II/ chelate catalytic additive
[NASA-CASE-LAR-10173-1] c27 N71-14090
- AMPLIFICATION**
- Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASE-XMS-05562-1] c09 N69-39986
- Clamped amplifier circuit for horizon scanner enabling amplification and accurate measurement of specified parameters
[NASA-CASE-XGS-01784] c10 N71-20782
- Diversity receiving system with diversity phase lock
[NASA-CASE-XGS-01222] c10 N71-20841
- Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ARC-10042-2] c10 N72-11256
- Amplifying circuit with constant current source for accumulator load and high gain voltage amplification
[NASA-CASE-NPO-11023] c09 N72-17155
- AMPLIFIER DESIGN**
- Automatic gain control amplifier system
[NASA-CASE-XMS-05307] c09 N69-24330
- Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c09 N74-21851
- AMPLIFIERS**
- Development of stable electronic amplifier adaptable for monolithic and thin film construction
[NASA-CASE-XGS-02812] c09 N71-19466
- Ear oximeter for monitoring blood oxygenation and pressure, pulse rate, and pressure pulse curve, using dc and ac amplifiers
[NASA-CASE-XAC-05422] c04 N71-23185
- Comb type traveling wave maser amplifier for improved high gain broadband output
[NASA-CASE-NPO-10548] c16 N71-24831
- Vibrophonocardiograph comprising low weight and small volume piezoelectric microphone with amplifier having high input impedance for high sensitivity and low frequency response
[NASA-CASE-XPR-07172] c05 N71-27234
- Digital data handling circuits for pulse amplifiers
[NASA-CASE-XNP-01068] c10 N71-28739
- Active RC filter networks and amplifiers for deep space magnetic field measurement
[NASA-CASE-XAC-05462-2] c10 N72-17171
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c09 N74-14939
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
- Reflected wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c36 N75-16827
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[NASA-CASE-XMS-04061-1] c09 N69-39885
- Cathode ray oscilloscope for analyzing electrical waveforms representing amplitude distribution of time function
[NASA-CASE-XNP-01383] c09 N71-10659
- Analog to digital converter circuit for pulse height analysis
[NASA-CASE-INP-00477] c08 N73-28045
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[NASA-CASE-XNP-05612] c09 N69-21468

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- Development of demodulation system for removing amplitude modulation from two quadrature displaced data bearing signals
[NASA-CASE-XAC-04030] c10 N71-19472
- Development of apparatus for amplitude modulation of diode laser by periodic discharge of direct current power supply
[NASA-CASE-XMS-04269] c16 N71-22895
- Vibrating element electrometer producing high conversion gain by input current control of elements resonant frequency displacement amplitude
[NASA-CASE-XAC-02807] c09 N71-23021
- Scanning signal phase and amplitude electronic control device with hybrid T waveguide junction
[NASA-CASE-NPO-10302] c10 N71-26142
- High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430
- Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c07 N74-19788
- Amplitude steered array
[NASA-CASE-GSC-11446-1] c09 N74-20860
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[NASA-CASE-NPO-10169] c10 N71-24844
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[NASA-CASE-XMP-01097] c10 N71-16058
- Automatic closed circuit television arc guidance control for welding joints
[NASA-CASE-MFS-13046] c07 N71-19433
- Electronic divider and multiplier for analog electric signals
[NASA-CASE-XPR-05637] c09 N71-19480
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[NASA-CASE-ARC-10466-1] c60 N75-13539
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[NASA-CASE-LEW-11881-1] c33 N75-28316
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[NASA-CASE-GSC-10880-1] c08 N72-11172
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[NASA-CASE-NPO-10068] c08 N71-19288
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[NASA-CASE-XGS-02612] c08 N71-19435
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[NASA-CASE-ERC-10048] c09 N72-25251
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[NASA-CASE-XAC-00404] c08 N70-40125
- Analog to digital converter for converting pulses to frequencies
[NASA-CASE-XLA-00670] c08 N71-12501
- Describing continuous analog to digital converter with parallel digital output and nonlinear feedback
[NASA-CASE-XAC-04031] c08 N71-18594
- Voltage drift compensation circuit for analog-to-digital converter
[NASA-CASE-XNP-04780] c08 N71-19687
- Development and characteristics of fluid oscillator analog to digital converter with variable frequency controlled by signal passing through conditioning circuit
[NASA-CASE-LEW-10345-1] c10 N71-25899
- Data acquisition system for converting displayed analog signal to digital values
[NASA-CASE-NPO-10344] c10 N71-26544
- Apparatus for automatically testing analog to digital converters for open and short circuits
[NASA-CASE-XLA-06713] c14 N71-28991
- Wide range analog to digital converter with variable gain amplifier
[NASA-CASE-NPO-11018] c08 N72-21200
- Analog to digital converter using offset voltage to eliminate errors
[NASA-CASE-MSC-13110-1] c08 N72-22163
- Analog to digital converter analyzing system
[NASA-CASE-NPO-10560] c08 N72-22166
- Control and information system for digital telemetry data using analog converter to digitize sensed parameter values
[NASA-CASE-NPO-11016] c08 N72-31226
- Nonrecursive counting digital filter containing shift register
[NASA-CASE-NPO-11821-1] c08 N73-26175
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[NASA-CASE-XNP-00477] c08 N73-28045
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[NASA-CASE-NPO-13385-1] c08 N74-32646
- ANALYZERS**
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[NASA-CASE-NPO-10691] c14 N71-26199
- Automated fluid chemical analyzer for microchemical analysis of small quantities of liquids by use of selected reagents and analyzer units
[NASA-CASE-XNP-09451] c06 N71-26754
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[NASA-CASE-ARC-10443-1] c14 N73-20477
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[NASA-CASE-MSC-13802-2] c14 N74-32883
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[NASA-CASE-ARC-10802-1] c35 N75-30502
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[NASA-CASE-XMP-05224] c14 N71-23726
- Maxometers for measuring peak wind speeds during severe environmental conditions
[NASA-CASE-MFS-20916] c14 N73-25460
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[NASA-CASE-XMP-04415] c14 N71-24693
- Optical device containing rotatable prism and reflecting mirror for generating precise angles
[NASA-CASE-XGS-04173] c19 N71-26674
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c07 N74-20813
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[NASA-CASE-XMS-05936] c14 N70-41682
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[NASA-CASE-GSC-11444-1] c14 N73-28490
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[NASA-CASE-XGS-00619] c30 N70-40016
- ANGULAR RESOLUTION**
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[NASA-CASE-XMP-00447] c14 N70-33179
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[NASA-CASE-XGS-05680] c14 N71-17585
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[NASA-CASE-MFS-22356-1] c23 N75-30256
- ANILINE**
Synthesis of high purity dianilinosilanes
[NASA-CASE-XMP-06409] c06 N71-23230
- ANIMALS**
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c04 N74-15778
- ANNEALING**
Recovering efficiency of solar cells damaged by environmental radiation through thermal annealing
[NASA-CASE-XGS-04047-2] c03 N72-11062
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Large area-ratio nozzles for rocket motor thrust chambers

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- [NASA-CASE-XLE-00145] c28 N70-36806
Electrostatic microthrust propulsion system with
annular slit colloid thruster
[NASA-CASE-GSC-10709-1] c28 N71-25213

ANNULAR PLATES

- Bluff-shaped annular configuration for
supersonic decelerator for reentry vehicles
[NASA-CASE-XLE-00222] c02 N70-37939

ANODES

- Design and characteristics of heat activated
electric cell with anode made from one or more
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material
[NASA-CASE-LEW-11358] c03 N71-26084
Storage battery comprising negative plates of a
wedge shaped configuration --- for preventing
shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c03 N74-19693
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of the zinc anode
[NASA-CASE-HQN-10862-1] c44 N75-32583

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- Anodizing method for providing metal surfaces
with temperature reducing coatings against
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[NASA-CASE-XLE-00035] c33 N71-29151

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- Monopole antenna system for maximum
omnidirectional efficiency for use on satellites
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synchronous satellite or ground based radar
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radar antenna system
[NASA-CASE-XMS-09610] c07 N71-24625
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input signals on two separate antennas to form
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[NASA-CASE-MSC-12205-1] c07 N71-27056
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[NASA-CASE-GSC-10220-1] c07 N71-27233
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[NASA-CASE-XGS-02290] c07 N71-28809
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[NASA-CASE-LAR-10545-1] c09 N72-21244
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polarized pair of elements
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with phased array antenna
[NASA-CASE-ERC-10285] c10 N73-16206
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[NASA-CASE-GSC-11013-1] c09 N73-19234
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[NASA-CASE-MSC-12593-1] c09 N74-14942
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- Digital servo controller --- for rotating
antenna shaft
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- Development and characteristics of low-noise
multimode monopulse antenna feed system for
use with microwave communication equipment
[NASA-CASE-XNP-01735] c07 N71-22750
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- [NASA-CASE-XMS-04312] c07 N71-22984
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[NASA-CASE-MSC-12205-1] c07 N71-27056
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dipole antenna using deformable tubular
metallic strip element
[NASA-CASE-HQN-00937] c07 N71-28979
Development of method for suppressing excitation
of electromagnetic surface waves on dielectric
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[NASA-CASE-GSC-10064-1] c10 N72-22235
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automatically expanded to operating state
[NASA-CASE-KSC-10392] c07 N73-26117
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[NASA-CASE-LAR-11112-1] c09 N74-29575
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[NASA-CASE-XNP-01057] c07 N71-15907
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Pattern and impedance matching improvements in
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[NASA-CASE-XGS-02290] c07 N71-28809
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- [NASA-CASE-XAC-07043] c05 N71-23161
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- [NASA-CASE-XMS-05304] c05 N71-12336
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- [NASA-CASE-LAR-10226-1] c14 N73-19419
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- [NASA-CASE-NPO-11373] c13 N72-25323
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- [NASA-CASE-NPO-11919-1] c14 N74-11284
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- [NASA-CASE-LAR-11138] c12 N71-20436
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- [NASA-CASE-XMP-14032] c20 N71-16340
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- [NASA-CASE-NPO-10467] c23 N71-26654
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- [NASA-CASE-GSC-11895-1] c15 N74-33997
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[NASA-CASE-GSC-1C880-1] c08 N72-11172
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[NASA-CASE-GSC-10890-1] c21 N73-30640
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[NASA-CASE-MFS-22905-1] c35 N75-10407

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[NASA-CASE-XFR-00181] c21 N70-33279
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[NASA-CASE-XGS-00466] c21 N70-34297
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[NASA-CASE-XMP-00185] c21 N70-34539
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[NASA-CASE-XNP-00465] c21 N70-35395
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[NASA-CASE-XNP-00294] c21 N70-36938
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[NASA-CASE-XAC-01404] c05 N70-41581
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[NASA-CASE-XMS-02977] c11 N71-10746
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[NASA-CASE-XNP-03914] c21 N71-10771
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[NASA-CASE-LAR-10774] c10 N71-13545
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[NASA-CASE-XLA-01163] c21 N71-15582
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[NASA-CASE-XMP-01598] c21 N71-15583
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[NASA-CASE-XAC-02405] c09 N71-16089
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[NASA-CASE-XLF-03583] c31 N71-17629
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[NASA-CASE-XLA-00793] c21 N71-22880
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[NASA-CASE-XGS-01654] c31 N71-24750

Development of voice operated controller for controlling reaction jets of spacecraft
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Attitude sensor
[NASA-CASE-LAR-10586-1] c14 N74-15089

Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c14 N74-15094

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Spacecraft attitude control system using solar and earth sensors, gyroscopes, and jet actuators
[NASA-CASE-XNP-00465] c21 N70-35395
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[NASA-CASE-XNP-00438] c21 N70-35089

Hand controller operable about three respectively perpendicular axes and capable of actuating signal generators for attitude control devices
[NASA-CASE-XMS-07487] c15 N71-23255

Combined optical attitude and altitude indicating instrument for use in aircraft or spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268

Aircraft horizon and vertical indicator
[NASA-CASE-ERC-10392] c21 N73-14692

Attitude sensor
[NASA-CASE-LAR-10586-1] c14 N74-15089

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Dynamic precession damping of spin-stabilized vehicles by using rate gyroscope and angular accelerometer
[NASA-CASE-XLA-01989] c21 N70-34295

Attitude stabilizer for nonguided missile or vehicle with respect to trajectory
[NASA-CASE-ARC-10134] c30 N72-17873

Strapped down gyroscope aligned with sun and star tracker optical axis calibrating roll, yaw and pitch values
[NASA-CASE-ARC-10716-1] c31 N73-32784

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Audio equipment for removing impulse noise from audio signals
[NASA-CASE-NPO-11631] c10 N73-12244

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High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430

Audio frequency analysis circuit for determining, displaying, and recording frequency of sweeping audio frequency signal
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[NASA-CASE-HQN-10832-1] c14 N74-21014

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[NASA-CASE-MSC-12223-1] c07 N71-26181

Audio equipment for removing impulse noise from audio signals
[NASA-CASE-NPO-11631] c10 N73-12244

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Auditory display for the blind
[NASA-CASE-HQN-10832-1] c14 N74-21014

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[NASA-CASE-LEW-11267-1] c17 N73-32414

Apparatus for measuring the ferrite content of austenitic stainless steel weld material
[NASA-CASE-MFS-22907-1] c26 N75-10210

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Linear three-tap feedback shift register
[NASA-CASE-NPO-10351] c08 N71-12503

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[NASA-CASE-XNP-00746] c07 N71-21476

AUTOMATIC CONTROL

Automatic control of voltage supply to direct current motor
[NASA-CASE-XMS-04215-1] c09 N69-39987

Electro-optical/computer system for aligning large structural members and maintaining correct position
[NASA-CASE-INP-02029] c14 N70-41955

Pulsed energy power system for application of combustible gases to turbine controlling ac voltage generator
[NASA-CASE-MSC-13112] c03 N71-11057

Automatic balancing device for use on frictionless supported attitude-controlled test platforms
[NASA-CASE-LAR-10774] c10 N71-13545

Computer controlled apparatus for maintaining welding torch angle and velocity during seam tracking
[NASA-CASE-IMP-03287] c15 N71-15607

Fluid leakage detection system with automatic monitoring capability
[NASA-CASE-LAR-10323-1] c12 N71-17573

Light sensitive control system for automatically opening and closing dome of solar optical telescope
[NASA-CASE-MSC-10966] c14 N71-19568

Welding torch with automatic speed controller using speed sensing wheel and closed servo system
[NASA-CASE-IMP-01730] c15 N71-23050

Microwave waveguide switch with rotor position control
[NASA-CASE-XNP-06507] c09 N71-23548

Automatically reciprocating, high pressure pump for use in spacecraft cryogenic propellants
[NASA-CASE-XNP-04731] c15 N71-24042

Automatic controlled thermal fatigue testing apparatus
[NASA-CASE-XLA-02059] c33 N71-24276

Automatically charging battery of electric storage cells
[NASA-CASE-XNP-04758] c03 N71-24605

Electric motor control system with pulse width modulation for providing automatic null seeking servo
[NASA-CASE-IMP-05195] c10 N71-24861

Indexing mechanism for cathode array substitution in electron beam tube
[NASA-CASE-NPO-10625] c09 N71-26182

Voltage range selection apparatus for sensing and applying voltages to electronic instruments without loading signal source
[NASA-CASE-XMS-06497] c14 N71-26244

Automated fluid chemical analyzer for microchemical analysis of small quantities of liquids by use of selected reagents and analyzer units
[NASA-CASE-XNP-09451] c06 N71-26754

Automatic control device for regulating inlet water temperature of liquid cooled spacesuit
[NASA-CASE-MSC-13917-1] c05 N72-15098

Optimal control system for automatic speed regulation of electric driven motor vehicle
[NASA-CASE-NPO-11210] c11 N72-20244

Plotter device for automatically drawing equipotential lines on sheet of resistance paper
[NASA-CASE-NPO-11134] c09 N72-21246

Automatic shunting of ion thruster magnetic field when thruster is not operating
[NASA-CASE-LEW-10835-1] c28 N72-22771

Automatic temperature control for liquid cooled space suit
[NASA-CASE-ABC-10599-1] c05 N73-26071

Speed control system for dc motor equipped with brushless Hall effect device
[NASA-CASE-MFS-20207-1] c09 N73-32107

Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c05 N74-22771

Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c09 N75-12968

Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c35 N75-13226

Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014

Automatic fluid dispenser
[NASA-CASE-ABC-10820-1] c54 N75-32766

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determining altitude of flight vehicles
[NASA-CASE-XLA-00128] c15 N70-37925

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[NASA-CASE-MSC-12116-1] c15 N71-17648

Sensoroidal diaphragm cavitating flow control valve
[NASA-CASE-XNP-09704] c12 N71-18615

Reliability of automatic refilling valving device for cryogenic liquid systems
[NASA-CASE-NPO-11177] c15 N72-17453

Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c37 N75-15050

AUTOMATIC FREQUENCY CONTROL

System for phase locking onto carrier frequency signal located within receiver bandpass
[NASA-CASE-XGS-04994] c09 N69-21543

Audio signal processing system for noise surge elimination at low amplitude audio input
[NASA-CASE-MSC-12223-1] c07 N71-26181

Automatic frequency control device for providing frequency reference for voltage controlled oscillator
[NASA-CASE-KSC-10393] c09 N72-21247

Self-tuning electronic filter for maintaining constant bandwidth and center frequency gain
[NASA-CASE-ABC-10264-1] c09 N73-20231

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Automatic gain control amplifier system
[NASA-CASE-XMS-05307] c09 N69-24330

Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASE-XMS-05562-1] c09 N69-39986

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[NASA-CASE-ABC-10264-1] c09 N73-20231

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[NASA-CASE-ABC-10329-1] c05 N73-26072

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[NASA-CASE-LAR-11354-1] c35 N75-27330

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Test fixture for measuring moment of inertia of irregularly shaped body with multiple axes
[NASA-CASE-XGS-01023] c14 N71-22992

Mechanism for restraining universal joints to prevent separation while allowing bending, angulation, and lateral offset in any position about axis
[NASA-CASE-XNP-02278] c15 N71-28951

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Unitary three-axis controller for flight vehicles within or outside atmosphere
[NASA-CASE-XFR-00181] c21 N70-33279

Proportional controller for regulating aircraft or spacecraft motion about three axes
[NASA-CASE-XAC-03392] c03 N70-41954

Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references
[NASA-CASE-IMP-00684] c21 N71-21688

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[NASA-CASE-XMS-07487] c15 N71-23255

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[NASA-CASE-XLE-00170] c15 N7C-36412

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[NASA-CASE-XLE-00085] c28 N70-39895

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[NASA-CASE-XLA-07424] c14 N71-18482

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[NASA-CASE-BQN-10541-2] c15 N71-27135
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[NASA-CASE-BQN-10541-4] c16 N71-27183
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[NASA-CASE-GSC-10556-1] c31 N71-26537
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[NASA-CASE-GSC-11551-1] c15 N74-18132
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[NASA-CASE-XAR-01547] c05 N69-21473
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[NASA-CASE-XNP-01855] c15 N71-28937
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[NASA-CASE-GSC-11895-1] c15 N74-33997
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[NASA-CASE-MFS-19193-1] c37 N75-19686

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[NASA-CASE-NPO-13205-1] c15 N74-32917

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[NASA-CASE-XNP-09422] c07 N71-19436
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[NASA-CASE-XAC-05632] c32 N71-23971
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[NASA-CASE-XNP-10475] c15 N71-24679
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[NASA-CASE-XLA-05966] c15 N72-12408

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Charged particle analyzer with periodically varying voltage applied across electrostatic deflection members
[NASA-CASE-XAC-05506-1] c24 N71-16095

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[NASA-CASE-XAR-03786] c09 N69-21313
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[NASA-CASE-NPO-10637] c15 N72-12409
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[NASA-CASE-NPO-11283] c09 N72-25260
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[NASA-CASE-MPS-20433] c15 N72-28496
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[NASA-CASE-ARC-10441-1] c15 N74-15126
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[NASA-CASE-GSC-10373-1] c07 N71-19773
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[NASA-CASE-XNP-04623] c10 N71-26103
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[NASA-CASE-NPO-10342] c10 N71-33407
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[NASA-CASE-NPO-11194] c08 N72-25209
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Nondestructive interrogating and state changing circuit for binary magnetic storage elements
[NASA-CASE-XGS-00174] c08 N70-34743
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[NASA-CASE-XGS-04766] c08 N71-18602
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[NASA-CASE-XGS-04765] c08 N71-18693
Digital synchronizer for extracting binary data in receiver of PSK/PCM communication system
[NASA-CASE-NPO-10851] c07 N71-24613
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c07 N74-26654
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[NASA-CASE-GSC-11743-1] c32 N75-24981
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[NASA-CASE-XLA-00471] c08 N70-34778
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[NASA-CASE-XGS-00689] c08 N70-34787
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[NASA-CASE-NPO-10112] c08 N71-12502
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[NASA-CASE-XNP-05415] c08 N71-12505
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[NASA-CASE-XGS-04987] c08 N71-20571
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[NASA-CASE-XNP-04819] c08 N71-23295
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[NASA-CASE-KSC-10595] c08 N73-12176
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[NASA-CASE-MSC-14082-1] c08 N73-16163
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[NASA-CASE-KSC-10326] c08 N72-21197
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[NASA-CASE-XMP-05868] c26 N75-27125
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[NASA-CASE-LAR-11782-1] c35 N75-30516
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[NASA-CASE-XGS-01231] c14 N70-41676
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[NASA-CASE-GSC-10565-1] c06 N72-25149
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[NASA-CASE-GSC-11092-2] c04 N73-27052
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[NASA-CASE-NPO-12130-1] c25 N75-14844
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[NASA-CASE-XMS-02872] c05 N69-21925
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[NASA-CASE-MSC-90153-2] c05 N72-25120
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[NASA-CASE-XMS-04213-1] c09 N71-26002
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[NASA-CASE-ARC-10043-1] c05 N71-11193
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[NASA-CASE-MSC-13282-1] c05 N71-24729
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[NASA-CASE-XMS-04213-1] c09 N71-26002
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[NASA-CASE-ARC-10597-1] c05 N74-20726
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[NASA-CASE-NPO-13423-1] c33 N75-31329
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[NASA-CASE-ARC-10855-1] c52 N75-33642
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[NASA-CASE-XGS-05534] c23 N71-16355
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[NASA-CASE-XGS-05532] c06 N71-17705
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[NASA-CASE-GSC-12039-1] c51 N75-26629
- BIOMEDICAL DATA**
Silicon radiation detecting probe design for in vivo biomedical use
[NASA-CASE-XMS-01177] c05 N71-19440
- BIOMETRICS**
Characteristics of pressed disc electrode for biological measurements
[NASA-CASE-XMS-04212-1] c05 N71-12346
Compressible electrolyte saturated sponge electrode for biomedical applications
[NASA-CASE-MSC-13648] c05 N72-27103
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c05 N74-20726
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c05 N74-27566
- BIOTELEMETRY**
Biotelemetry apparatus with dual voltage generators for implanting in animals
[NASA-CASE-XAC-05706] c05 N71-12342
Multichannel medical monitoring system to measure physiological parameters from display device at remote control station
[NASA-CASE-LEW-14180-1] c05 N73-22045
Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c05 N74-26625
- BIREFRINGENCE**
Automatic polarimeter capable of measuring transient birefringence changes in electro-optic materials
[NASA-CASE-XNP-08883] c23 N71-16101
- BISMUTH COMPOUNDS**
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c35 N75-13213
- BISTABLE CIRCUITS**
Bistable multivibrator circuits operating at high speed and low power dissipation
[NASA-CASE-XGS-00823] c10 N71-15910
- BIT SYNCHRONIZATION**
Telemetry data unit to form multibit words for use between demodulator and computer
[NASA-CASE-XNP-09225] c09 N69-24333
Bit synchronization system using digital data transition tracking phased locked loop
[NASA-CASE-NPO-10844] c07 N72-20140
Bit synchronization of PCM communications signal, without separate synchronization channel by digital correlation
[NASA-CASE-NPO-11302-1] c07 N73-13149
- Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c07 N74-10132
- BINARY CODE**
Encoders designed to generate comma free biorthogonal Reed-Muller type code comprising conversion of 64 6-bit words into 64 32-bit data for communication purposes
[NASA-CASE-NPO-10595] c10 N71-25917
- BITS**
Logic circuit for generating multibit binary code word in parallel
[NASA-CASE-XNP-04623] c10 N71-26103
MOD 2 sequential function generator for multibit sequence, with two-bit shift register for each pair of bits
[NASA-CASE-NPO-10636] c08 N72-25210
- BLACK BODY RADIATION**
Development of black-body source calibration furnace
[NASA-CASE-XLE-01399] c33 N71-15625
Black body cavity radiometer with thermal resistance wire bridge circuit
[NASA-CASE-XNP-08961] c14 N71-24809
Black body radiometer design with temperature sensing and cavity heat source cone winding
[NASA-CASE-XNP-09701] c14 N71-26475
Black body radiometer having isothermally surrounded cavity for ultraviolet, visible, and infrared radiation
[NASA-CASE-NPO-10810] c14 N71-27323
- BLADE TIPS**
Modification and improvement of turbine blades for maximum cooling efficiency
[NASA-CASE-XLE-00092] c15 N70-33264
- BLADES (CUTTERS)**
Piston in bore cutter for severing parachute control lines and sealing cable hole to prevent water leakage into load
[NASA-CASE-XMS-04072] c15 N70-42017
- BLAST LOADS**
Development of apparatus for detonating explosive devices in order to determine forces generated and detonation propagation rate
[NASA-CASE-LAR-10800-1] c33 N72-27959
- BLOOD**
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c52 N75-15270
- BLOOD PRESSURE**
Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c05 N74-26626
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c05 N74-27566
Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c54 N75-13531
- BLUFF BODIES**
Bluff-shaped annular configuration for supersonic decelerator for reentry vehicles
[NASA-CASE-XLE-00222] c02 N70-37939
- BLUNT BODIES**
Wind tunnel method for simulating flow fields around blunt vehicles entering planetary atmospheres without involving high temperatures
[NASA-CASE-LAR-11138] c12 N71-20436
- BODIES OF REVOLUTION**
Conforming polisher for aspheric surfaces of revolution with inflatable tube
[NASA-CASE-XGS-02884] c15 N71-22705
Test fixture for measuring moment of inertia of irregularly shaped body with multiple axes
[NASA-CASE-XGS-01023] c14 N71-22992
- BODY FLUIDS**
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[NASA-CASE-ARC-10447-1] c05 N74-22771
Improved method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c51 N75-21921
- BODY KINEMATICS**
Space suit with improved waist and torso movement
[NASA-CASE-ARC-10275-1] c05 N72-22092

BODY MEASUREMENT (BIOLOGY)

Ingestible miniaturized telemetry device for deep body temperature measurements on humans and animals
[NASA-CASE-ARC-10583-1] c05 N73-14093
Ultra-flexible biomedical electrodes and wires
[NASA-CASE-ARC-10268-2] c05 N74-11900
Ultra-flexible biomedical electrode and wires
[NASA-CASE-ARC-10268-3] c05 N74-11901

BODY TEMPERATURE

Thermoregulating with cooling flow pipe network for humans
[NASA-CASE-XMS-10269] c05 N71-24147

BODY VOLUME (BIOLOGY)

Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c05 N74-10975

BOILERS

Vapor generating boiler system for turbine motor
[NASA-CASE-XLE-00785] c33 N71-16104
Shell-side liquid metal boiler employing tube and shell heat exchanger
[NASA-CASE-NPO-10831] c33 N72-20915

BOLOMETERS

High impedance alternating current sensing transformer device between two bolometers for measuring insertion loss of test component
[NASA-CASE-XNP-01193] c10 N71-16057
Thin film capacitive bolometer and capacitance temperature interchange sensor
[NASA-CASE-NPO-10607] c09 N71-27232

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Patent data on gas actuated bolt disconnect assembly
[NASA-CASE-XLA-00326] c03 N70-34667
Bolt-latch mechanism for releasing despin weights from space vehicle
[NASA-CASE-XLA-00679] c15 N70-38601
Gage for quality control of sealing surfaces of threaded boss
[NASA-CASE-XMP-04966] c14 N71-17658
Split nut and bolt separation device
[NASA-CASE-XNP-06914] c15 N71-21489
Device for securing together structural members with axially stretched bolt and nut
[NASA-CASE-GSC-11149-1] c15 N73-30457

BONDING

Silver chloride use in technique for fusion bonding of graphite to silver, glass, ceramics, and certain other metals
[NASA-CASE-XGS-00963] c15 N69-39735
Strain arrestor plate --- bonding rigid thermal insulation tiles to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c18 N74-15213
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c15 N74-23064
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c24 N75-30260

BONES

Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c35 N75-12271
Method and system for in vivo measurement of bone tissue
[NASA-CASE-MSC-14276-1] c54 N75-21948

BOOMS (EQUIPMENT)

Unfolding boom assembly with knuckle joints for positioning equipment for spacecraft
[NASA-CASE-XGS-06938] c32 N70-41367
Collapsible antenna boom and coaxial transmission line having inflatable inner tube
[NASA-CASE-MFS-20068] c07 N71-27191
Extendable, self-deploying boom apparatus
[NASA-CASE-GSC-10566-1] c15 N72-18477
Design and characteristics of mechanically extended and telescoping boom on crane assembly
[NASA-CASE-NPO-11118] c03 N72-25021

BOOSTER RECOVERY

Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections
[NASA-CASE-XMP-00389] c31 N70-34176
Recoverable, reusable single stage booster capable of injecting large payloads into circular earth orbit
[NASA-CASE-XMP-01973] c31 N70-41588

BOOSTER ROCKET ENGINES

Segmented back-up bar for butt welding large tubular structures such as rocket booster bodies or tanks
[NASA-CASE-XMP-00640] c15 N70-39924
Recoverable, reusable single stage booster capable of injecting large payloads into circular earth orbit
[NASA-CASE-XMP-01973] c31 N70-41588

BORING MACHINES

Automatic controlled drive mechanism for portable boring bar
[NASA-CASE-XLA-03661] c15 N71-33518

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Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c24 N74-20329

BORON CARBIDES

Catalyst for increased growth of boron carbide crystal whiskers
[NASA-CASE-XHQ-03903] c15 N69-21922

BOUNDARY LAYER CONTROL

Double hinged flap for boundary layer control over trailing edges of wings
[NASA-CASE-XLA-01290] c02 N70-42016

BOUNDARY LAYER SEPARATION

Tertiary flow injection system for thrust vectoring of propulsive nozzle flow
[NASA-CASE-MFS-20831] c28 N71-29153

BOUNDARY LAYERS

Flow meter for measuring stagnation pressure in boundary layer around high speed flight vehicle
[NASA-CASE-XFR-02007] c12 N71-24692
Development of thermocouple instrument for measuring temperature of wall heated by flowing fluid without disturbing boundary layer
[NASA-CASE-XLE-05230] c14 N72-27410

BOXES (CONTAINERS)

Sealed storage container for channel carriers with mounted miniature electronic components
[NASA-CASE-MFS-20075] c09 N71-26133

BRAKES (FOR ARRESTING MOTION)

Energy dissipating shock absorbing system for land payload recovery or vehicle braking
[NASA-CASE-XLA-00754] c15 N70-34850
Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-XKS-07814] c15 N71-27067
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[NASA-CASE-MFS-21846-1] c15 N74-26976
Motion restraining device --- for dissipating at a controlled rate the force of a moving body
[NASA-CASE-NPO-13619-1] c37 N75-22748

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Direct current electromotive system for regenerative braking of electric motor
[NASA-CASE-XMP-01096] c10 N71-16030
Linear magnetic braking system with nonuniformly wrapped primary coil producing constant braking force on secondary coil
[NASA-CASE-XLE-05079] c15 N71-17652
Anemometer with braking mechanism to prevent rotation of wind driven elements
[NASA-CASE-XMP-05224] c14 N71-23726

BRAZING

Anti-wettable materials brazing processes using titanium and zirconium for surface pretreatment
[NASA-CASE-XMS-03537] c15 N69-21471
Application techniques for protecting materials during salt bath brazing
[NASA-CASE-XLE-00046] c15 N70-33311
Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443
Brazing alloy adapted for brazing corrosion resistant steel to refractory metals, also for brazing refractory metals to other refractory metals
[NASA-CASE-XNP-03063] c17 N71-23365
Electric resistance spot welding and brazing for producing metal bonds with superior mechanical and structural characteristics
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- Brazing alloy
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Three-port transfer valve with one port open continuously suitable for manned space flight
[NASA-CASE-XAC-01158] c15 N71-23051
- Self-contained breathing apparatus
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[NASA-CASE-MSC-12233-2] c32 N73-13921
- BRIGHTNESS**
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[NASA-CASE-XMS-04300] c09 N71-19479
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[NASA-CASE-NPO-10140] c07 N71-24742
- Automated visual sensitivity tester for determining visual field sensitivity and blind spot size
[NASA-CASE-ARC-10329-1] c05 N73-26072
- BRITTLENESS**
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XMP-10007-1] c15 N74-23068
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[NASA-CASE-XMP-09755] c15 N74-23069
- BROADBAND**
Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures
[NASA-CASE-XMS-05303] c07 N69-27462
- Flexible monopole antenna with broad bandwidth and low voltage standing wave ratio
[NASA-CASE-MSC-12101] c09 N71-18720
- Broadband frequency discriminator with resistive captive inductive networks
[NASA-CASE-NPO-10096] c07 N71-24583
- Broadband microwave waveguide window to compensate dielectric material filling
[NASA-CASE-XMP-08880] c09 N71-24808
- Comb type traveling wave maser amplifier for improved high gain broadband output
[NASA-CASE-NPO-10548] c16 N71-24831
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[NASA-CASE-XMP-01016] c26 N71-17818
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[NASA-CASE-XLA-01019] c15 N70-40156
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[NASA-CASE-LAR-10440-1] c14 N73-32323
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[NASA-CASE-XMP-04162-1] c08 N70-34675
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[NASA-CASE-XGS-02816] c07 N69-24323
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[NASA-CASE-MSC-12052-1] c15 N71-24599
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[NASA-CASE-LAR-10129-1] c15 N73-25512
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[NASA-CASE-XMP-00738] c09 N70-38201
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[NASA-CASE-XLA-02332] c32 N71-17609
- Support for flexible conductor cable between drawers or racks holding electronic equipment and cabinet assembly housing drawers or racks
[NASA-CASE-XMP-07587] c15 N71-18701
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[NASA-CASE-XMF-03844-1] c14 N71-26474
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Soldering device particularly suited to making high quality wiring joints for aerospace engineering utilizing capillary attraction to regulate flow of solder [NASA-CASE-XLA-08911] c15 N71-27214

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Digital cardiometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute [NASA-CASE-XMS-02399] c05 N71-22896

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Variable frequency subcarrier oscillator with temperature compensation
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[NASA-CASE-MFS-21394-1] c12 N74-27744
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Design and development of random function tracer for obtaining coordinates of points on contour maps
[NASA-CASE-XLA-01401] c15 N71-21179
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Tape cartridge with high capacity storage of endless-loop magnetic tape
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[NASA-CASE-XGS-01223] c07 N71-10609
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[NASA-CASE-GSC-10065-1] c10 N71-27136
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[NASA-CASE-XGS-00886] c03 N71-11053
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[NASA-CASE-LEW-11227-1] c73 N75-30876
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[NASA-CASE-XNP-00683] c09 N70-35425
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[NASA-CASE-XNP-09832] c30 N71-23723
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[NASA-CASE-NPO-13091-1] c09 N73-12214
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[NASA-CASE-XHQ-03903] c15 N69-21922
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[NASA-CASE-XPR-00811] c15 N70-36901
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[NASA-CASE-NPO-13643-1] c54 N75-25598
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[NASA-CASE-NFO-10625] c09 N71-26182
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[NASA-CASE-ERC-10098] c09 N71-28618
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[NASA-CASE-NPO-11342] c09 N72-25248
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Ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c18 N74-30005

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Cermet for nuclear fuel constructed by pressing
metal coated ceramic particles in die at
temperature to cause bonding of metal
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[NASA-CASE-LEW-10219-1] c18 N71-28729

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checkout of spacecraft
[NASA-CASE-XKS-08012-2] c31 N71-15566
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determining oxygen content in alkali liquid
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[NASA-CASE-ARC-10344-1] c14 N72-21433
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membrane and electrode assembly for fuel cells
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diaphragms for use with hydrazine
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sensitivity to ultraviolet light and usable

for producing positive photographic images
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[NASA-CASE-NPO-13606-1] c35 N75-19627

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quantitative and qualitative analysis of
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copolymers with stable properties when exposed
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[NASA-CASE-MFS-10512] c06 N73-30099
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[NASA-CASE-NPO-10767-1] c06 N73-33076
Thiophenyl ether disiloxanes and trisiloxanes
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[NASA-CASE-MFS-22411-1] c15 N74-21058
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[NASA-CASE-HQN-10364] c06 N71-27363
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[NASA-CASE-NPO-10070] c15 N71-27372
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- [NASA-CASE-LEW-11118-1] c15 N74-32919
Heat exchanger --- rocket combustion chambers and cooling systems
- [NASA-CASE-LEW-12252-1] c34 N75-19579
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- [NASA-CASE-LEW-12441-1] c34 N75-19580
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- [NASA-CASE-XLE-03494] c27 N71-21819
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Fuel injection system for maximum combustion efficiency of rocket engines
- [NASA-CASE-XLE-0C111] c28 N70-38199
- COMBUSTION PHYSICS**
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- [NASA-CASE-NPO-11559] c28 N73-24784
- COMBUSTION PRODUCTS**
Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
- [NASA-CASE-XGS-01971] c15 N71-15922
Device for generating and controlling combustion products for testing of fire detection system
- [NASA-CASE-GSC-11095-1] c14 N72-10375
- COMBUSTION STABILITY**
Rocket combustion chamber stability by controlling transverse instability during propellant combustion
- [NASA-CASE-XLE-04603] c33 N71-21507
- COMMAND MODULES**
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- [NASA-CASE-MSC-12279] c15 N72-17450
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Communication between computers using two identical communications links
- [NASA-CASE-NPO-11161] c08 N72-25207
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Circuitry for developing autocorrelation function continuously within signal receiving period
- [NASA-CASE-XNP-00746] c07 N71-21476
Superconductive resonant cavity for improved signal to noise ratio in communication signal
- [NASA-CASE-MSC-12259-2] c07 N72-33146
- COMMUNICATION CABLES**
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- [NASA-CASE-XNP-03498] c15 N71-15986
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- [NASA-CASE-GSC-11215-1] c09 N73-28083
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- [NASA-CASE-XNP-01306] c07 N71-20814
Binary data decoding device for use at receiving end of communication channel
- [NASA-CASE-NPO-10118] c07 N71-24741
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- [NASA-CASE-NPO-11282] c10 N73-16205
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- [NASA-CASE-GSC-10087-4] c07 N73-20174
Differential phase shift keyed communication system
- [NASA-CASE-MSC-14065-1] c07 N74-26654
- COMMUNICATION SATELLITES**
Erectable, inflatable, radio signal reflecting passive communication satellite
- [NASA-CASE-XLA-00210] c30 N70-40309
Development of antenna system for spin stabilized communication satellite for simultaneous reception and transmission of data
- [NASA-CASE-XGS-02607] c31 N71-23009
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- [NASA-CASE-XAC-06029-1] c31 N71-24813
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- [NASA-CASE-XNP-02389] c07 N71-28900
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- [NASA-CASE-ERC-10419-1] c03 N75-30132
- COMMUTATION**
High speed low level voltage commutating switch
- [NASA-CASE-XAC-00060] c09 N70-39915
- COMMUTATORS**
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- [NASA-CASE-XGS-08266] c14 N69-27432
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- [NASA-CASE-MPS-14322] c08 N71-18692
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- [NASA-CASE-XLE-03804] c10 N71-19471
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- [NASA-CASE-XGS-01331] c14 N71-22996
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- [NASA-CASE-XNP-04819] c08 N71-23295
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- [NASA-CASE-LAR-10523-1] c14 N72-22444
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- [NASA-CASE-XLE-02428] c17 N70-33288
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- [NASA-CASE-XLE-00231] c17 N70-38198
Composites reinforced with short metal fibers or whiskers and having high tensile strength
- [NASA-CASE-XLE-00228] c17 N70-38490
Unfired-ceramic, highly reflective composite insulation for large launch vehicles
- [NASA-CASE-XNP-01030] c18 N70-41583
Freeze casting of metal ceramic and refractory compound powders into plastic slips
- [NASA-CASE-XLE-00106] c15 N71-16076
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- [NASA-CASE-XNP-05279] c18 N71-16124
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[NASA-CASE-XLP-03925] c18 N71-22894
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[NASA-CASE-NPO-11190] c03 N71-34044
- Heat treatment and tooling for forming shapes from thermosetting honeycomb core sheets
[NASA-CASE-NPO-11036] c15 N72-24522
- Method for making fiber composites with high strength at high temperatures
[NASA-CASE-LEW-10424-2-2] c18 N72-25539
- Development of thermal compensating structure which maintains uniform length with changes in temperature
[NASA-CASE-NFS-20433] c15 N72-28496
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[NASA-CASE-MSC-14331-1] c18 N73-27501
- Fabrication of polyphenylquinoxaline composite articles by means of in situ polymerization of monomers
[NASA-CASE-LEW-11879-1] c18 N74-20152
- Method of manufacturing composite superconductors
[NASA-CASE-LEW-11582-1] c09 N74-33739
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[NASA-CASE-LEW-11930-1] c24 N75-15746
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[NASA-CASE-LAR-10173-1] c27 N71-14090
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[NASA-CASE-XLA-00204] c32 N70-36536
- Shrouded composite propulsion system configuration
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[NASA-CASE-LAR-10440-1] c14 N73-32323
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[NASA-CASE-LAR-10426-1] c32 N74-19528
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[NASA-CASE-LEW-10533-1] c15 N73-28515
- COMPRESSORS**
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[NASA-CASE-XLA-00377] c33 N71-17610
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[NASA-CASE-NFS-22145-2] c25 N74-35145
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[NASA-CASE-XGS-04768] c08 N71-19437
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[NASA-CASE-XNP-01753] c08 N71-22897
- COMPUTER GRAPHICS**
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[NASA-CASE-NPO-10745] c08 N72-22164
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[NASA-CASE-NPO-10595] c10 N71-25917
- COMPUTER PROGRAMS**
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[NASA-CASE-NPO-10567] c08 N71-24633
- Development of computer program for estimating reliability of self-repair and fault-tolerant systems with respect to selected system and mission parameters
[NASA-CASE-NPO-13086-1] c15 N73-12495
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[NASA-CASE-NPO-11497] c08 N73-25206
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[NASA-CASE-XNP-05835] c08 N71-12504
- Binary sequence detector with few memory elements and minimized logic circuit complexity
[NASA-CASE-XNP-05415] c08 N71-12505
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[NASA-CASE-XGS-03303] c08 N71-18595
- Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
[NASA-CASE-XNP-01318] c10 N71-23033
- Time division multiplexed telemetry transmitting system controlled by programmed memory
[NASA-CASE-GSC-10131-1] c07 N71-24624
- Serial digital decoder design with square circuit matrix and serial memory storage units
[NASA-CASE-NPO-10150] c08 N71-24650
- Digital memory system with multiple switch cores for driving each word location
[NASA-CASE-XNP-01466] c10 N71-26434
- Redundant memory for enhanced reliability of digital data processing system
[NASA-CASE-GSC-10564] c10 N71-29135
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[NASA-CASE-NPO-13139-1] c08 N74-17911
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- Data compression processor for monitoring analog signals by sampling procedure
[NASA-CASE-NPO-10068] c08 N71-19288
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[NASA-CASE-XGS-01036] c14 N70-40003
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[NASA-CASE-XLE-01716] c09 N70-40234
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[NASA-CASE-NPO-14149-1] c44 N75-12429
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[NASA-CASE-MFS-19193-1] c37 N75-19686
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[NASA-CASE-XLE-00266] c14 N70-34156
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[NASA-CASE-XMS-09571] c05 N71-19439
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[NASA-CASE-XNP-07587] c15 N71-18701
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[NASA-CASE-XNP-09701] c14 N71-26475
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[NASA-CASE-NPO-10890] c11 N73-12265
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[NASA-CASE-XLE-00715] c15 N70-34859
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[NASA-CASE-NPO-10303] c07 N72-22127
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[NASA-CASE-NPO-11661] c07 N73-14130
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[NASA-CASE-XKS-03495] c14 N69-39785
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[NASA-CASE-XMS-04292] c15 N71-22722
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[NASA-CASE-XLA-05056] c15 N72-11389
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[NASA-CASE-GSC-11215-1] c09 N73-28083
- CONSCIOUSNESS**
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[NASA-CASE-MSC-13282-1] c05 N71-24729
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Three stage motion restraining mechanism for restraining and damping three dimensional vibrational movement of gimballed package during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694
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[NASA-CASE-LAR-10129-1] c15 N73-25512
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[NASA-CASE-MFS-21046-1] c14 N73-27377
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[NASA-CASE-LAR-10129-2] c15 N74-20063
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[NASA-CASE-MSC-12233-1] c15 N72-25454
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[NASA-CASE-MSC-12233-2] c32 N73-13921
- CONTACT POTENTIALS**
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[NASA-CASE-XGS-01593] c03 N70-35408
- CONTAINERS**
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[NASA-CASE-NPO-10123] c15 N71-24835
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[NASA-CASE-ERC-10045] c15 N71-24910
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[NASA-CASE-XNP-02500] c18 N71-27397
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- CONTAMINATION**
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[NASA-CASE-XNP-02039] c15 N71-15871
Contamination free separation but eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922
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[NASA-CASE-NPO-10070] c15 N71-27372
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[NASA-CASE-GSC-10879-1] c14 N72-25413
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[NASA-CASE-XLE-2529-2] c36 N75-27364
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[NASA-CASE-XNP-02723] c07 N70-41680
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Control system for pressure balance device used in calibrating pressure gages [NASA-CASE-XMP-04134] c14 N71-23755

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Voltage drift compensation circuit for analog-to-digital converter [NASA-CASE-XNP-04780] c08 N71-19687

Development of attitude control system for vertical takeoff aircraft using reaction nozzles displaced from various axes of aircraft [NASA-CASE-XAC-08972] c02 N71-20570

Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control [NASA-CASE-XAC-10019] c15 N71-23809

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Digital memory system with multiple switch cores for driving each word location [NASA-CASE-XNP-01466] c10 N71-26434

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Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff [NASA-CASE-LAR-10688-1] c15 N74-21056

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Nuclear reactor control rod assembly with improved driving mechanism [NASA-CASE-XLE-00298] c22 N70-34501

Manual control mechanism for adjusting control rod to null position [NASA-CASE-XLA-01808] c15 N71-20740

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Conical valve plug for use with reactive cryogenic fluids [NASA-CASE-XLE-00715] c15 N70-34859

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[NASA-CASE-HFS-20333] c09 N71-13486
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[NASA-CASE-GSC-10891-1] c10 N71-26626
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[NASA-CASE-XAC-00812] c14 N71-15598
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[NASA-CASE-HFS-14114-2] c09 N71-24807
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[NASA-CASE-NPO-10467] c23 N71-26654
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[NASA-CASE-XHQ-03673] c33 N71-29046
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[NASA-CASE-MSC-12389] c33 N71-29052
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[NASA-CASE-HQN-00938] c33 N71-29053
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D

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[NASA-CASE-XMP-00658] c12 N70-38997
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[NASA-CASE-GSC-10306-1] c15 N71-24694
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[NASA-CASE-XAC-00404] c08 N70-40125
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[NASA-CASE-XNP-08832] c08 N71-12506
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[NASA-CASE-XGS-02612] c08 N71-19435
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[NASA-CASE-ERC-10048] c09 N72-25251
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[NASA-CASE-XPR-00756] c02 N71-13421
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[NASA-CASE-XGS-04767] c08 N71-12494
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[NASA-CASE-XAC-04030] c10 N71-19472

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[NASA-CASE-XLA-07828] c08 N71-27057

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[NASA-CASE-GSC-10186] c08 N71-33110

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[NASA-CASE-NPO-11358] c07 N72-25172

Development and characteristics of data decoder to process convolution encoded information
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[NASA-CASE-XNP-04067] c08 N71-22707

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[NASA-CASE-XMS-04312] c07 N71-22984
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[NASA-CASE-XNP-06892] c09 N71-24805
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[NASA-CASE-LAR-10590-1] c15 N70-26819
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[NASA-CASE-NPO-10112] c08 N71-12502
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[NASA-CASE-XNP-05415] c08 N71-12505
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[NASA-CASE-NPO-10150] c08 N71-24650
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[NASA-CASE-XNP-01012] c08 N71-28925
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[NASA-CASE-GSC-10564] c10 N71-29135
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[NASA-CASE-XNP-01318] c10 N71-23033
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[NASA-CASE-XNP-09759] c08 N71-24891
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[NASA-CASE-KSC-1C698] c07 N73-20175
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[NASA-CASE-XMS-04533] c15 N71-23086
- Purification apparatus for vaporization and fractional distillation of liquids
[NASA-CASE-XNP-08124] c15 N71-27184
- System for recovering oxygen and/or water from extraterrestrial soil and iron oxide materials
[NASA-CASE-MSC-12332-1] c15 N72-15476
- U shaped heated tube for distillation and purification of liquid metals
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Broadband distribution amplifier with complementary pair transistor output stages
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[NASA-CASE-GSC-11849-1] c09 N74-22873
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[NASA-CASE-LEW-11286-1] c02 N74-27490
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Asynchronous binary array divider
[NASA-CASE-ERC-10180-1] c08 N74-20836
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[NASA-CASE-XLA-02705] c08 N71-15908
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[NASA-CASE-MSC-12086-1] c05 N71-12345
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Doppler frequency shift correction device for multiplex communication with Applications Technology Satellites
[NASA-CASE-XGS-02749] c07 N69-39978
- Describing laser Doppler velocimeter for measuring mean velocity and turbulence of fluid flow
[NASA-CASE-MFS-20386] c21 N71-19212
- Doppler compensated communication system for locating supersonic transport position
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[NASA-CASE-HQN-10740-1] c24 N74-19310
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Cooperative Doppler radar system for avoiding midair collisions
[NASA-CASE-LAR-10403] c21 N71-11766
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[NASA-CASE-XLA-03645] c14 N71-20430
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Deployment system for flexible wing with rigid superstructure
[NASA-CASE-XLA-01220] c02 N70-41863
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[NASA-CASE-LAR-10776-1] c02 N74-10034
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Device for measuring drag forces in flight tests
[NASA-CASE-XLA-00113] c14 N70-33386
- Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-00755] c01 N71-13410
- Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-05828] c01 N71-13411
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[NASA-CASE-XLA-01530] c14 N71-23092
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[NASA-CASE-XAC-00139] c02 N70-34856
- Aircraft wheel spray drag alleviator for dual tandem landing gear
[NASA-CASE-XLA-01583] c02 N70-36825
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[NASA-CASE-XMS-05562-1] c09 N69-39986
- Solar radiation direction detector and device for compensating degradation of photocells
[NASA-CASE-XLA-00183] c14 N70-40239
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[NASA-CASE-XNP-01412] c15 N70-42034
- Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c37 N75-25186
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Rotary impact-type rock drill for recovering rock cuttings
[NASA-CASE-XNP-07478] c14 N69-21923
- Auger-type soil penetrometer for burrowing into soil formations
[NASA-CASE-XNP-05530] c14 N73-32321
- DRIVES**
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[NASA-CASE-LEW-10233] c10 N71-27126
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[NASA-CASE-NPO-10985] c14 N73-20478
- DRUGS**
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c25 N75-12086
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Drying chamber for photographic sheet material
[NASA-CASE-GSC-11074-1] c14 N73-28489

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Gas purged dry box glove reducing permeation of
air or moisture into dry box or isolator by
diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080

DUCTS

Quick disconnect duct coupling device for
single-handed operation
[NASA-CASE-MFS-20395] c15 N71-24903
An externally supported internally stabilized
flexible duct joint
[NASA-CASE-MFS-19194-1] c15 N74-34882

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Device for removing plastic dust cover from
digital computer disk packs for inspection and
cleaning
[NASA-CASE-LAR-10590-1] c15 N70-26819
Cosmic dust analyzer using ion time of flight
techniques to determine constituency of
hypervelocity particles such as micrometeoroids
[NASA-CASE-MSC-13802-1] c30 N72-20805

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Infrared tunable dye laser with nonlinear
wavelength mixing crystal in optical cavity
[NASA-CASE-ARC-10463-1] c09 N73-32111
Laser head for simultaneous optical pumping of
several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c36 N75-19655

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Dye penetrant and technique for nondestructive
tests of solid surfaces contacted by liquid
oxygen
[NASA-CASE-XMF-02221] c18 N71-27170

DYNAMIC CHARACTERISTICS

Dynamic sensor for gas pressure or density
measurement
[NASA-CASE-XAC-02877] c14 N70-41681
Design of precision vertical alignment system
using laser with gravitationally sensitive
cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397

DYNAMIC CONTROL

Motion restraining device --- for dissipating at
a controlled rate the force of a moving body
[NASA-CASE-NPO-13619-1] c37 N75-22748

DYNAMIC LOADS

Multilegged support system for wind tunnel test
models subjected to thermal dynamic loading
[NASA-CASE-XLA-01326] c11 N71-21481
Apparatus for measuring load on cable under
static or dynamic conditions comprising
pulleys pivoting structure against restraint
of tension strap
[NASA-CASE-XMS-04545] c15 N71-22878
Development and characteristics of device for
indicating and recording magnitude of force
applied in axial direction
[NASA-CASE-MSC-15626-1] c14 N72-25411

DYNAMIC MODULUS OF ELASTICITY

Apparatus for testing metallic and nonmetallic
beams or rods by bending at high temperatures
in vacuum or inert atmosphere
[NASA-CASE-XLE-01300] c15 N70-41993

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Lunar and planetary gravity simulator to test
vehicular response to landing
[NASA-CASE-XLA-00493] c11 N70-34786
Pressure sensor network for measuring liquid
dynamic response in flight including fuel tank
acceleration, liquid slosh amplitude, and fuel
depth monitoring
[NASA-CASE-XLA-05541] c12 N71-26387
Response analyzing apparatus for liquid vapor
interface sensor of sloshing rocket propellant
[NASA-CASE-MFS-11204] c14 N71-29134

DYNAMIC STRUCTURAL ANALYSIS

Development of system for measuring damping
characteristics of structure or system
subjected to random forces or influences
[NASA-CASE-ARC-10154-1] c14 N72-22440

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Hydraulic support equipment for full scale
dynamic testing of large rocket vehicle under
free flight conditions
[NASA-CASE-XMF-01772] c11 N70-41677

Hydraulic support apparatus for dynamic testing
of space vehicles under near-free flight
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[NASA-CASE-XMF-03248] c11 N71-10604

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by ion engine
[NASA-CASE-XLE-00702] c14 N70-40203
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performance of jet and rocket engines
[NASA-CASE-XLE-05260] c14 N71-20429

E**EAR**

Ear oximeter for monitoring blood oxygenation
and pressure, pulse rate, and pressure pulse
curve, using dc and ac amplifiers
[NASA-CASE-XAC-05422] c04 N71-23185

EARTH ATMOSPHERE

Ablation sensor for measuring surface ablation
rate of material on vehicles entering earths
atmosphere on entry into planetary atmospheres
[NASA-CASE-XLA-01791] c14 N71-22991

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earth orbit
[NASA-CASE-MFS-20710] c11 N72-23215
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for delivering payload to earth orbit or
celestial orbit
[NASA-CASE-MSC-12391] c30 N73-12884

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Economical satellite aided vehicle avoidance
system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631

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Recovering efficiency of solar cells damaged by
environmental radiation through thermal
annealing
[NASA-CASE-XGS-04047-2] c03 N72-11062
High efficiency multifrequency feed
[NASA-CASE-GSC-11317-3] c09 N74-20863

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Apparatus for ejecting covers of instrument
packages using differential pressure principle
[NASA-CASE-XMF-04132] c15 N69-27502

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Ejector for separating astronaut from ejection
seat during prelaunch or initial launch phase
of flight
[NASA-CASE-XMS-04625] c05 N71-20718

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and midcourse guidance of space vehicles
[NASA-CASE-XNP-00676] c15 N70-38996
Ejector for separating astronaut from ejection
seat during prelaunch or initial launch phase
of flight
[NASA-CASE-XMS-04625] c05 N71-20718
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self-contained spring ejector
[NASA-CASE-XLA-03538] c15 N71-24897

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Belleville spring assembly with elastic guides
having low hysteresis
[NASA-CASE-XNP-09452] c15 N69-27504
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[NASA-CASE-XAC-05632] c32 N71-23971
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c14 N74-27865

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Measuring shear-creep compliance of solid and
liquid materials used in spacecraft components
[NASA-CASE-XLE-01481] c14 N71-10781
Development of systems for automatically and
continually suppressing or attenuating bending
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ELASTIC MEDIA

Miniature vibration isolator utilizing elastic
tubing material
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receiving apertures for plurality of articles,
self-locked condition, and capable of using
nonmalleable materials in both ends
[NASA-CASE-XFR-05302] c15 N71-23254
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[NASA-CASE-ARC-10268-3] c05 N74-11901
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[NASA-CASE-LEW-11162-1] c09 N74-12913
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[NASA-CASE-LEW-11359] c03 N71-28579
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[NASA-CASE-GSC-11211-1] c03 N72-25020
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- Diode-quad bridge circuit means
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[NASA-CASE-NPO-10821] c03 N71-19545
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[NASA-CASE-FRC-10029] c09 N71-24618
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[NASA-CASE-LEW-10489-1] c15 N72-25447
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[NASA-CASE-XNP-05228] c09 N69-27500
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[NASA-CASE-XMF-01049] c15 N71-23049
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[NASA-CASE-XGS-01505] c03 N71-10608

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[NASA-CASE-MSC-12135-1] c09 N71-12526
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[NASA-CASE-XNP-00384] c09 N71-13530
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[NASA-CASE-XNP-03918] c14 N71-23087
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[NASA-CASE-XMS-04919] c09 N71-23270
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[NASA-CASE-ERC-10098] c09 N71-28618
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[NASA-CASE-ERC-10139] c09 N72-17154
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[NASA-CASE-NPO-11023] c09 N72-17155
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[NASA-CASE-NPO-10743] c08 N72-21199
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[NASA-CASE-ERC-10075-2] c09 N72-22196
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[NASA-CASE-XMF-00375] c15 N70-34249
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[NASA-CASE-XLE-04250] c09 N71-20446
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[NASA-CASE-XMS-08589-1] c09 N71-20569

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[NASA-CASE-XLE-00818] c22 N70-34248
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[NASA-CASE-XLE-01902] c28 N71-10574
Electrostatic microthruster propulsion system with annular slit colloid thruster
[NASA-CASE-GSC-10709-1] c28 N71-25213
- ELECTROSTATICS**
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c33 N75-19522
- ELECTROTHERMAL ENGINES**
Electrothermal rocket engine using resistance heated heat exchanger
[NASA-CASE-XLE-00267] c28 N70-33356
High resistance cross flow heat exchangers for electrothermal rocket engines
[NASA-CASE-XLE-01783] c28 N70-34175
- ELEVATION**
Tracking mount for laser telescope employed in tracking large rockets and space vehicles to give information regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627
Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-XKS-07814] c15 N71-27067
- ELEVATORS (LIFTS)**
Centrifuge mounted motion simulator with elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815
Guide member for stabilizing cable of open shaft elevator
[NASA-CASE-KSC-10513] c15 N72-25453
- ELEVONS**
Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088
- ELLIPSES**
Ellipsograph for describing and cutting ellipses with minimal axial dimensions
[NASA-CASE-XLA-03102] c14 N71-21079
- ELONGATION**
Strain gage measurement of elongation due to thermally and mechanically induced stresses
[NASA-CASE-XGS-04478] c14 N71-24233
Method and apparatus for detecting flaws in elongated bodies
[NASA-CASE-MFS-19218-1] c14 N74-34860
- ELUTION**
Amino acid analysis
[NASA-CASE-NPO-12130-1] c25 N75-14844
- EMERGENCIES**
Silent alarm system for multiple room facility or school
[NASA-CASE-NPO-11307-1] c10 N73-30205
- EMERGENCY BREATHING TECHNIQUES**
Pulmonary resuscitation method and apparatus with adjustable pressure regulator
[NASA-CASE-XMS-01115] c05 N70-39922
- EMERGENCY LIFE SUSTAINING SYSTEMS**
Development and characteristics of inflatable structure to provide escape from orbit for spacecrews under emergency conditions
[NASA-CASE-XMS-06162] c31 N71-28851
Three transceiver lunar emergency system to relay voice communication of astronaut
[NASA-CASE-MFS-21042] c07 N72-25171
- EMISSION SPECTRA**
Emission spectroscopy method for contamination monitoring of inert gas metal arc welding
[NASA-CASE-XMF-02039] c15 N71-15871
Scattering independent determination of absorption and emission coefficients and radiative equilibrium state
[NASA-CASE-NPO-13677-1] c35 N75-16791
- EMITTANCE**
High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875
- EMITTERS**
Inverted geometry transistor for use with monolithic integrated circuit
[NASA-CASE-ARC-10330-1] c09 N73-32112
- EMULSIONS**
Apparatus for obtaining isotropic irradiation on film emulsion from parallel radiation source
[NASA-CASE-MFS-20095] c24 N72-11595
- ENAMELS**
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c27 N75-27160
- ENCAPSULATING**
Controlled caging and uncaging mechanism for remote instrument control
[NASA-CASE-GSC-11063-1] c03 N70-35584
Development of bacteriostatic conformal coating and methods of application
[NASA-CASE-GSC-10007] c18 N71-16046
Flexible, repairable, portable composition for encapsulating electric connectors
[NASA-CASE-XGS-05180] c18 N71-25881
Test chambers with orifice and helium mass spectrometer for detecting leak rate of encapsulated semiconductor devices
[NASA-CASE-ZBC-10150] c14 N71-28992
Electrically coupled individually encapsulated solar cell matrix
[NASA-CASE-NPO-11190] c03 N71-34044
- ENCLOSURES**
Method and apparatus for bowing of instrument panels to improve radio frequency shielded enclosure
[NASA-CASE-XMF-09422] c07 N71-19436
- ENDOSCOPES**
Borescope with adjustable hinged telescoping optical system
[NASA-CASE-MFS-15162] c14 N72-32452
- ENDOTHERMIC REACTIONS**
Sensor device with switches for measuring surface recession of charring and noncharring ablators
[NASA-CASE-XLA-01781] c14 N69-39975
- ENEMY PERSONNEL**
Development of electronic detection system for remotely determining number and movement of enemy personnel
[NASA-CASE-ARC-10097-2] c07 N73-25160
- ENERGY ABSORPTION**
Non-reusable kinetic energy absorber for application in soft landing of space vehicles
[NASA-CASE-XLE-00810] c15 N70-34861
Low onset rate energy absorber in form of strut assembly for crew couch of Apollo command module
[NASA-CASE-MSC-12279-1] c15 N70-35679
Air brake device for absorbing and measuring power from rotating shafts
[NASA-CASE-XLE-00720] c14 N70-40201
Design and development of double acting shock absorber for spacecraft docking operations
[NASA-CASE-XMS-03722] c15 N71-21530

Nonreusable energy absorbing device comprising ring member with plurality of recesses, cutting members, and guide member mounted in each recess
[NASA-CASE-XMP-10040] c15 N71-22877

Suspended mass oscillation damper based on impact energy absorption for damping wind induced oscillations of tall stacks, antennas, and umbilical towers
[NASA-CASE-LAR-1C193-1] c15 N71-27146

Energy absorption device in high precision gear train for protection against damage to components caused by stop loads
[NASA-CASE-XNP-01848] c15 N71-28959

Shock absorber for use as protective barrier in impact energy absorbing system
[NASA-CASE-NPO-10671] c15 N72-20443

High energy absorption docking system design for docking large spacecraft
[NASA-CASE-MFS-20863] c31 N73-26876

Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c15 N73-30460

ENERGY CONSERVATION
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c15 N75-13007

ENERGY CONVERSION
Thermoelectric power conversion by liquid metal flowing through magnetic field
[NASA-CASE-XNP-00644] c03 N70-36803

Concentrator device for controlling direction of solar energy onto energy converters
[NASA-CASE-XLE-01716] c09 N70-40234

Device for converting electromagnetic wave energy into electric power
[NASA-CASE-GSC-11394-1] c09 N73-32109

Schottky barrier laser energy converter
[NASA-CASE-NPO-13390-1] c16 N74-32937

Low to high temperature energy conversion system --- using ammonia
[NASA-CASE-NPO-12510-1] c44 N75-16972

Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c44 N75-27561

Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c36 N75-30524

ENERGY CONVERSION EFFICIENCY
Vacuum thermionic converter with short-circuited triodes and increased electron transmission and conversion efficiency
[NASA-CASE-XLE-01015] c03 N69-39898

Direct conversion of thermal energy into electrical energy using crossed electric and magnetic fields
[NASA-CASE-XLE-00212] c03 N70-34134

Increasing power conversion efficiency of electronic amplifiers by power supply switching
[NASA-CASE-XMS-00945] c09 N71-10798

ENERGY DISSIPATION
Energy dissipating shock absorbing system for land payload recovery or vehicle braking
[NASA-CASE-XLA-00754] c15 N70-34850

Motion restraining device --- for dissipating at a controlled rate the force of a moving body
[NASA-CASE-NPO-13619-1] c37 N75-22748

ENERGY POLICY
Solar energy power system
[NASA-CASE-MFS-21628-2] c44 N75-29548

ENERGY SOURCES
Energy source with tantalum capacitors in parallel and miniature silver oxide button cells for initiating pyrotechnic devices on spacecraft and rocket vehicles
[NASA-CASE-LAR-10367-1] c03 N70-26817

Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
[NASA-CASE-XGS-03632] c09 N71-23311

Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c33 N75-19522

ENERGY STORAGE
Switching mechanism with energy stored in coil spring
[NASA-CASE-XGS-00473] c03 N70-38713

Stored charge transistor
[NASA-CASE-NPO-11156-2] c33 N75-31331

ENERGY TRANSFER
Solar energy absorber
[NASA-CASE-MFS-22743-1] c44 N75-10585

ENGINE CONTROL

Direct current electromotive system for regenerative braking of electric motor
[NASA-CASE-XMP-01096] c10 N71-16030

Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930

ENGINE COOLANTS

Apparatus for cooling and injecting hypergolic propellants into combustion chamber of small rocket engine
[NASA-CASE-XLE-00303] c15 N70-36535

Injector manifold assembly for bipropellant rocket engines providing for fuel propellant to serve as coolant
[NASA-CASE-XMP-00148] c28 N70-38710

ENGINE DESIGN

Design and development of gas turbine combustion unit with nozzle guide vanes for introducing diluent air into combustion gases
[NASA-CASE-XLE-103477-1] c28 N71-20330

Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-INP-02923] c28 N71-23081

ENGINE FAILURE

System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-XNP-02592] c24 N71-20518

ENGINE INLETS

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c28 N74-31270

Jet engine air intake system
[NASA-CASE-ARC-10761-1] c07 N75-31108

ENGINE MONITORING INSTRUMENTS

System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-INP-02592] c24 N71-20518

ENGINE NOISE

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c28 N74-31270

ENGINE TESTS

Electric propulsion engine test chamber
[NASA-CASE-XLE-00252] c11 N70-34844

ENGINEERING DRAWINGS

High-temperature, high-pressure spherical segment valve
[NASA-CASE-XAC-00074] c15 N70-34817

Graphic illustration of lifting body design
[NASA-CASE-FRC-10063] c01 N71-12217

Specifications and drawings for semipassive optical communication system
[NASA-CASE-XLA-01090] c07 N71-12389

Method of making molded electric connector for use with flat conductor cables
[NASA-CASE-XMP-03498] c15 N71-15986

ENTHALPY

Measuring conductive heat flow and thermal conductivity of laminar gas stream in cylindrical plug to simulate atmospheric reentry
[NASA-CASE-XLE-00266] c14 N70-34156

ENVIRONMENT SIMULATION

Method and apparatus for applying compressional forces to skeletal structure of subject to simulate force during ambulatory conditions
[NASA-CASE-ARC-10100-1] c05 N71-24738

Gravity environment simulation by locomotion and restraint aid for studying manual operation performance of astronauts at zero gravity
[NASA-CASE-ARC-10153] c05 N71-28619

ENVIRONMENT SIMULATORS

Space environment simulator for testing spacecraft components under aerospace conditions
[NASA-CASE-NPO-10141] c11 N71-24964

ENVIRONMENTAL CONTROL

Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203

Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XMP-03212] c15 N71-22721

Development and characteristics of thermal sensitive panel for controlling ratio of solar absorptivity to surface emissivity for space vehicle temperature control

ENVIRONMENTAL ENGINEERING

SUBJECT INDEX

- [NASA-CASE-XLA-07728] c33 N71-22890
Dual solid cryogenics for spacecraft refrigeration
insuring low temperature cooling for extended
periods
- [NASA-CASE-GSC-10188-1] c23 N71-24725
Vibration control of flexible bodies in steady
accelerating environment
- [NASA-CASE-LAR-10106-1] c15 N71-27169
Test chamber for determining decomposition and
autoignition of materials used in spacecraft
under controlled environmental conditions
- [NASA-CASE-KSC-10198] c11 N71-28629
Readily assembled universal environment housing
for electronic equipment
- [NASA-CASE-KSC-10031] c15 N72-22486
Environmentally controlled suit for working in
sterile chamber
- [NASA-CASE-LAR-10076-1] c05 N73-20137
Dual stage check valve for cryogenic supply
systems used in space flight environmental
control system
- [NASA-CASE-MSC-13587-1] c15 N73-30459
Spacecraft with artificial gravity and earthlike
atmosphere
- [NASA-CASE-LEW-11101-1] c31 N73-32750
ENVIRONMENTAL ENGINEERING
Thermal control wall panel with application to
spacecraft cabins
- [NASA-CASE-XLA-01243] c33 N71-22792
ENVIRONMENTAL TESTS
Multisample test chamber for exposing materials
to X rays, temperature change, and gaseous
conditions and determination of material effects
- [NASA-CASE-XMS-02930] c11 N71-23042
Space suit using nonflexible material with low
leakage and providing protection against
thermal extremes, physical punctures, and
radiation with high mobility articulation
- [NASA-CASE-XAC-07043] c05 N71-23161
Flammability test chamber for testing materials
in certain predetermined environments
- [NASA-CASE-KSC-10126] c11 N71-24985
Multiaxes vibration device for making vibration
tests along orthogonal axes of test specimen
- [NASA-CASE-MPS-20242] c14 N73-19421
ENVIRONMENTS
Hermetically sealed elbow actuator for use in
severe environments
- [NASA-CASE-MPS-14710] c09 N72-22195
ENZYME ACTIVITY
Use of enzyme hexokinase and glucose to reduce
inherent light levels of ATP in luciferase
compositions
- [NASA-CASE-XGS-05533] c04 N69-27487
Enzymatic luminescent bioassay method for
determining bacterial levels in urine
- [NASA-CASE-GSC-11092-2] c04 N73-27052
ENZYMES
Protein sterilization of firefly luciferase
without denaturation
- [NASA-CASE-GSC-10225-1] c06 N73-27086
EPOXY COMPOUNDS
Synthesis of siloxane containing epoxy polymers
with low dielectric properties
- [NASA-CASE-MPS-13994-1] c06 N71-11240
Synthesis of siloxane containing epoxide and
diamine polymers
- [NASA-CASE-MPS-13994-2] c06 N72-25148
EPOXY RESINS
Nonmagnetic hermetically sealed battery case
made of epoxy resin and woven glass tape for
use with electrochemical cells in spacecraft
- [NASA-CASE-XGS-00886] c03 N71-11053
Epoxy resin sealing device for electrochemical
cells in high vacuum environments
- [NASA-CASE-XGS-02630] c03 N71-22974
Cold metal hydroforming techniques using epoxy
molds for counteracting creep or stretch
- [NASA-CASE-XLE-05641-1] c15 N71-26346
Miniature electromechanical junction transducer
operating on piezoelectric effect and
utilizing epoxy for stress coupling component
- [NASA-CASE-BRC-10087] c14 N71-27334
Infusible polymer production from reaction of
polyfunctional epoxy resins with
polyfunctional aziridine compounds
- [NASA-CASE-NPO-10701] c06 N71-28620
Transparent fire resistant polymeric structures
- [NASA-CASE-ARC-10813-1] c18 N74-16249
Method of repairing discontinuity in fiberglass
structures
- [NASA-CASE-LAR-10416-1] c18 N74-30001
EQUILIBRIUM EQUATIONS
Scattering independent determination of
absorption and emission coefficients and
radiative equilibrium state
- [NASA-CASE-NPO-13677-1] c35 N75-16791
EQUIPMENT
Bimetallic fluid displacement apparatus --- for
stirring and heating stored gases and liquids
- [NASA-CASE-ARC-10441-1] c15 N74-15126
EQUIPMENT SPECIFICATIONS
Differential pressure cell insensitive to
changes in ambient temperature and extreme
overload
- [NASA-CASE-XAC-00042] c14 N70-34816
High-temperature, high-pressure spherical
segment valve
- [NASA-CASE-XAC-00074] c15 N70-34817
Remote-reading torque meter for use where high
horsepowers are transmitted at high rotative
speeds
- [NASA-CASE-XLE-00503] c14 N70-34818
Magnetically centered liquid column float
- [NASA-CASE-XAC-00030] c14 N70-34820
Electric propulsion engine test chamber
- [NASA-CASE-XLE-00252] c11 N70-34844
Channel-type shell construction for rocket
engines and related configurations
- [NASA-CASE-XLE-00144] c28 N70-34860
Non-reusable kinetic energy absorber for
application in soft landing of space vehicles
- [NASA-CASE-XLE-00810] c15 N70-34861
Slit regulated gas journal bearing
- [NASA-CASE-XNP-00476] c15 N70-38620
Specifications and drawings for semipassive
optical communication system
- [NASA-CASE-XLA-01090] c07 N71-12389
Stretcher with rigid head and neck support with
capability of supporting immobilized person in
vertical position for removal from vehicle
hatch to exterior also useful as splint
stretcher
- [NASA-CASE-XHF-06589] c05 N71-23159
Development of performed attachable thermocouple
from thermoelectrically different metals
- [NASA-CASE-LEW-11072-2] c14 N72-28443
Development of vortex fluid amplifier for
throttling rocket exhaust
- [NASA-CASE-LEW-10374-1] c28 N73-13773
Simplified technique and device for producing
industrial grade synthetic diamonds
- [NASA-CASE-MPS-20698-2] c15 N73-19457
Anti-buckling fatigue test assembly --- for
subjecting metal specimen to tensile and
compressive loads at constant temperature
- [NASA-CASE-LAR-10426-1] c32 N74-19528
Apparatus for conducting flow electrophoresis in
the substantial absence of gravity
- [NASA-CASE-MPS-21394-1] c12 N74-27744
Ultrasonic calibration device
- [NASA-CASE-LAR-11435-1] c35 N75-11248
Automatic bioassay sampling
- [NASA-CASE-MSC-14640-1] c54 N75-13536
EQUIPOTENTIALS
Equipotential space suits utilizing mechanical
aids to minimize astronaut energy at bending
joints
- [NASA-CASE-LAR-10007-1] c05 N71-11195
Instrument for measuring potentials on two
dimensional electric field plot
- [NASA-CASE-XLA-08493] c10 N71-19421
ERGONOMETERS
Development of restraint system for securing
personnel to ergometer while exercising under
weightless conditions
- [NASA-CASE-MPS-21046-1] c14 N73-27377
Versatile ergometer with work load control
- [NASA-CASE-MPS-21109-1] c05 N73-27941
Tilting table for testing human body in variety
of positions while exercising on ergometer or
other biomedical devices
- [NASA-CASE-MPS-21010-1] c05 N73-30078
Pneumatic foot pedal operated fluidic exercising
device
- [NASA-CASE-MSC-11561-1] c05 N73-32014
Ergometer calibrator --- for any ergometer
utilizing rotating shaft

- [NASA-CASE-MFS-21045-1] c35 N75-15932
- ERROR ANALYSIS**
Development of computer program for estimating reliability of self-repair and fault-tolerant systems with respect to selected system and mission parameters
[NASA-CASE-NPO-13086-1] c15 N73-12495
- ERROR CORRECTING DEVICES**
Error correction circuitry for binary signal channels
[NASA-CASE-XNP-03263] c09 N71-18843
Multiplexed communication system design including automatic correction of transmission errors introduced by frequency spectrum shifts
[NASA-CASE-XNP-01306] c07 N71-20814
Description of error correcting methods for use with digital data computers and apparatus for encoding and decoding digital data
[NASA-CASE-XNP-02748] c08 N71-22749
Guide accessories for correctly aligning paper in typewriter to correct typographical errors
[NASA-CASE-MFS-15218-1] c15 N73-31438
- ERROR DETECTION CODES**
Self testing and repairing computer comprising control and diagnostic unit and rollback points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633
- ERROR SIGNALS**
Error correction circuitry for binary signal channels
[NASA-CASE-XNP-03263] c09 N71-18843
Feedback controller for sampling error signals within single control formulation time interval
[NASA-CASE-GSC-10554-1] c08 N71-29033
- ERRORS**
Analog to digital converter using offset voltage to eliminate errors
[NASA-CASE-MSC-13110-1] c08 N72-22163
- ESCAPE CAPSULES**
Aerial capsule emergency separation device using jettisonable towers
[NASA-CASE-XLA-00115] c03 N70-33343
Emergency escape cabin system for launch towers
[NASA-CASE-XKS-02342] c05 N71-11199
Spacecraft design with single point aerodynamic and hydrodynamic stability for emergency transport of men from space station to splashdown
[NASA-CASE-MSC-13281] c31 N72-18859
- ESCAPE SYSTEMS**
Design and specifications of emergency escape system for spacecraft structures
[NASA-CASE-MSC-12086-1] c05 N71-12345
Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-XKS-07814] c15 N71-27067
An improved load handling device
[NASA-CASE-MFS-22233-1] c54 N75-33725
- ESTERS**
Fluorinated esters of polycarboxylic acid and lubricating compositions for use at extreme temperature
[NASA-CASE-MFS-21040-1] c06 N73-30098
- ETCHING**
Reusable masking boat for chemical machining operations
[NASA-CASE-XNP-02092] c15 N70-42033
Development of method for etching copper
[NASA-CASE-XGS-06306] c17 N71-16044
Composition and process for improving definition of resin masks used in chemical etching
[NASA-CASE-XGS-04993] c14 N71-17574
Etching aluminum alloys with aqueous solution containing sulfuric acid, hydrofluoric acid, and an alkali metal dischromate for adhesive bonding
[NASA-CASE-XMF-02303] c17 N71-23828
Selective plating of etched circuits without removing previous plating
[NASA-CASE-XGS-03120] c15 N71-24047
Nickel plating onto etched aluminum castings
[NASA-CASE-XNP-04148] c17 N71-24830
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c15 N74-23065
- ETHERS**
Method for producing alternating ether-siloxane copolymers with stable properties when exposed to elevated temperatures and UV radiation
[NASA-CASE-XMF-02584] c06 N71-20905
Chemical synthesis of hydroxy terminated perfluoro ethers as intermediates for highly fluorinated polyurethane resins
[NASA-CASE-NPO-10768] c06 N71-27254
Formation of polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c06 N72-27144
- ETHYLENE OXIDE**
Using ethylene oxide in preparation of sterilized solid rocket propellants and encapsulating materials
[NASA-CASE-XNP-01749] c27 N70-41897
Ethylene oxide sterilization and encapsulating process for sterile preservation of instruments and solid propellants
[NASA-CASE-XNP-09763] c14 N71-20461
- EUTECTIC ALLOYS**
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-2] c15 N74-34002
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992
Method of growing composites of the type exhibiting the Soret effect --- improve structure of eutectic alloys, crystals
[NASA-CASE-MFS-22926-1] c25 N75-19380
- EVACUATING (VACUUM)**
Filling honeycomb matrix with deaerated paste filler
[NASA-CASE-XMS-01108] c15 N69-24322
Sealing evacuation port and evacuating vacuum container such as space jackets
[NASA-CASE-XMF-03290] c15 N71-23256
Gas leak detection in evacuated systems using ultraviolet radiation probe
[NASA-CASE-ERC-10034] c15 N71-24896
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c31 N75-13111
- EVAPORATION**
Evaporating crucible of tantalum-tungsten foil, nickel alumina bonding agent, and ceramic coating
[NASA-CASE-XLA-03105] c15 N69-27483
- EVAPORATORS**
Spatter proof evaporant source design for use in vacuum deposition of solid thin films on substrates
[NASA-CASE-XMF-06065] c15 N71-20395
Means of vapor deposition using electric current and evaporator filament
[NASA-CASE-LAR-10541-1] c15 N72-32487
An improved heat transfer device
[NASA-CASE-MFS-22938-1] c34 N75-15902
- EXERCISE (PHYSIOLOGY)**
Development of restraint system for securing personnel to ergometer while exercising under weightless conditions
[NASA-CASE-MFS-21046-1] c14 N73-27377
Tilting table for testing human body in variety of positions while exercising on ergometer or other biomedical devices
[NASA-CASE-MFS-21010-1] c05 N73-30078
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c15 N74-18127
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c52 N75-25539
- EXHAUST GASES**
Device for adding water to high velocity exhaust jets to reduce velocity, noise, and temperature
[NASA-CASE-XMF-01813] c28 N70-41582
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c28 N74-15453
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c28 N74-33218
- EXHAUST NOZZLES**
High thrust annular liquid propellant rocket engine and exhaust nozzle design
[NASA-CASE-XLE-00078] c28 N70-33284
Exhaust nozzle with afterburning for generating thrust
[NASA-CASE-XLA-00154] c28 N70-33374
Penshaped, supersonic exhaust nozzle design
[NASA-CASE-XLE-00057] c28 N70-38711

- Automatic ejection valve for attitude control and midcourse guidance of space vehicles
[NASA-CASE-XNP-00676] c15 N70-38996
- Jet aircraft exhaust nozzle for noise reduction
[NASA-CASE-LAR-10951-1] c28 N73-19819
- Exhaust flow deflector
[NASA-CASE-LAR-11570-1] c28 N74-28233
- EXPANDABLE STRUCTURES**
- Expanding and contracting connector strip for solar cell array of Nimbus satellite
[NASA-CASE-XGS-01395] c03 N69-21539
- Method of compactly packaging centrifugally expandable lightweight flexible reflector satellite
[NASA-CASE-XLA-00138] c31 N70-37981
- Foldable conduit capable of springing back as self erecting structural member
[NASA-CASE-XLE-00620] c32 N70-41579
- Collapsible high gain antenna which can be automatically expanded to operating state
[NASA-CASE-XSC-10392] c07 N73-26117
- Expandable space frames with high expansion to collapse ratio
[NASA-CASE-ERC-10365-1] c31 N73-32749
- Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c09 N74-22865
- EXPANSION**
- Apparatus for measuring polymer membrane expansion in electrochemical cells
[NASA-CASE-XGS-03865] c14 N69-21363
- EXPERIMENTAL DESIGN**
- Efficient operation of improved hydrofoil design
[NASA-CASE-XLA-00229] c12 N70-33305
- Sealed electric storage battery with gas manifold interconnecting each cell
[NASA-CASE-XNP-03378] c03 N71-11051
- Electrode attached to helmets for detecting low level signals from skin of living creatures
[NASA-CASE-ABC-10043-1] c05 N71-11193
- Conditioning suit for normal function of astronaut cardiovascular system in gravity environment
[NASA-CASE-XLA-02898] c05 N71-20268
- Space suit using nonflexible material with low leakage and providing protection against thermal extremes, physical punctures, and radiation with high mobility articulation
[NASA-CASE-XAC-07043] c05 N71-23161
- EXPLOSIONS**
- Device for detection of combustion light preceding gaseous explosions
[NASA-CASE-LAR-10739-1] c14 N73-16484
- EXPLOSIVE DEVICES**
- Stage separation using remote control release of joint with explosive insert
[NASA-CASE-XLA-02854] c15 N69-27490
- Hermetically sealed explosive release mechanism for actuator device
[NASA-CASE-XGS-00824] c15 N71-16078
- Development of non-magnetic indexing device for orienting magnetic flux sensing instrument in magnetic field without generation of detrimental magnetic fields
[NASA-CASE-XGS-02422] c15 N71-21529
- Development of apparatus for detonating explosive devices in order to determine forces generated and detonation propagation rate
[NASA-CASE-LAR-10800-1] c33 N72-27959
- Development and characteristics of squib actuated explosive disconnect for spacecraft release from launch vehicle
[NASA-CASE-NPO-11330] c33 N73-26958
- EXPLOSIVE FORMING**
- Electric discharge apparatus for electrohydraulic explosive forming
[NASA-CASE-XMF-00375] c15 N70-34249
- EXPLOSIVE WELDING**
- Method for eliminating noise and debris of explosive welding techniques by using complete enclosure
[NASA-CASE-LAR-10941-2] c15 N73-32371
- Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c15 N74-21057
- Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c37 N75-12326
- EXPLOSIVES**
- Production of intermetallic compounds by effect of shock waves from explosions and compaction of powder
[NASA-CASE-MPS-20861-1] c18 N73-32437
- Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c33 N74-27425
- EXPONENTIAL FUNCTIONS**
- Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c08 N72-20176
- EXPOSURE**
- Mechanical exposure interlock device for preventing film overexposure in oscilloscope camera
[NASA-CASE-LAR-10319-1] c14 N73-32322
- EXPULSION BLADDERS**
- Expulsion bladder equipped storage tank structure
[NASA-CASE-XNP-00612] c11 N70-38182
- Rubber composition for expulsion bladders and diaphragms for use with hydrazine
[NASA-CASE-NPO-11433] c18 N71-31140
- EXTENSIONS**
- Support for flexible conductor cable between drawers or racks holding electronic equipment and cabinet assembly housing drawers or racks
[NASA-CASE-XNP-07587] c15 N71-18701
- EXTENSOMETERS**
- Transducer frame for use with extensometer to continuously monitor specimen sample
[NASA-CASE-XLA-10322] c15 N72-17452
- Conductive elastomeric extensometer
[NASA-CASE-MPS-21049-1] c14 N74-27864
- EXTRACTION**
- Liquid-gas separator adapted for use in zero gravity environment - drawings
[NASA-CASE-XMS-01624] c15 N70-40062
- EXTRAVEHICULAR ACTIVITY**
- Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
- Hand-held maneuvering unit for propulsion and attitude control of astronauts in zero or reduced gravity environment
[NASA-CASE-XMS-05304] c05 N71-12336
- Internal and external serpentine devices for performing physical operations around orbital space stations
[NASA-CASE-XNP-05344] c31 N71-16345
- Releasable, pin-type fastener, easily operated during EVA
[NASA-CASE-ARC-10140-1] c15 N71-17653
- Design and development of flexible tunnel for use by spacecrews in performing extravehicular activities
[NASA-CASE-MSC-12243-1] c05 N71-24728
- Open loop life support subsystem using breathing bag as reservoir for EVA
[NASA-CASE-MSC-12411-1] c05 N72-20096
- Intra- and extravehicular life support space suite for Apollo astronauts
[NASA-CASE-MSC-12609-1] c05 N73-32012
- EXTREMELY LOW RADIO FREQUENCIES**
- VHF/UHF parasitic probe antenna for spacecraft communication
[NASA-CASE-XKS-09340] c07 N71-24614
- EXTRUDING**
- Extrusion can for extruding ceramics under heat and pressure
[NASA-CASE-NPO-10812] c15 N73-13464
- Brazing alloy binder
[NASA-CASE-XMF-05868] c26 N75-27125
- EYE (ANATOMY)**
- Sight switch using infrared source and sensor mounted beside eye
[NASA-CASE-XNP-03934] c09 N71-22985
- Ultrasonic device for ophthalmic eye surgery with safe removal of macerated material
[NASA-CASE-LEW-11669-1] c05 N73-27062
- EYE EXAMINATIONS**
- Automated visual sensitivity tester for determining visual field sensitivity and blind spot size
[NASA-CASE-ABC-10329-1] c05 N73-26072
- Visual examination apparatus
[NASA-CASE-ABC-10329-2] c05 N74-19761
- Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759
- EYEPIECES**
- Wide angle eyepiece with long eye-relief distance

[NASA-CASE-XMS-06056-1] c23 N71-24857

F**FABRICATION**

Fabrication of pressure-telemetry transducers
[NASA-CASE-XNP-05752] c14 N69-21541

Fabrication method for lightweight regeneratively cooled combustion chamber of channel construction
[NASA-CASE-XLE-00150] c28 N70-41818

Fabrication methods for matrices of solar cell submodules
[NASA-CASE-XNP-05821] c03 N71-11056

Capacitor fabrication by solidifying mixture of ferromagnetic metal particles, nonferromagnetic particles, and dielectric material
[NASA-CASE-LEW-10364-1] c09 N71-13522

Method and apparatus for fabricating solar cell panels
[NASA-CASE-XNP-03413] c03 N71-26726

Fabrication of root cord restrained fabric suit sections from sheets of fabric
[NASA-CASE-MSC-12398] c05 N72-20098

Method of fabricating equal length insulated wire
[NASA-CASE-FRC-10038] c15 N72-20444

Development of thin film temperature sensor from TaO
[NASA-CASE-NPO-11775] c26 N72-28761

Lightweight reflector assembly and method
[NASA-CASE-NPO-13707-1] c74 N75-32894

FABRICS

Fabrication of root cord restrained fabric suit sections from sheets of fabric
[NASA-CASE-MSC-12398] c05 N72-20098

FABRY-PEROT INTERFEROMETERS

Fabry-Perot interferometer retrodirective reflector modulator for optical communication
[NASA-CASE-XGS-04480] c16 N69-27491

FACSIMILE COMMUNICATION

Restoration and improvement of demodulated facsimile video signals
[NASA-CASE-GSC-10185-1] c07 N72-12081

Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c35 N75-19613

FACTORY DESIGN

Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 N71-11194

Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195

FAIL-SAFE SYSTEMS

Fail-safe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c09 N72-25262

Latch mechanism
[NASA-CASE-MSC-12549-1] c15 N74-27903

FAILURE ANALYSIS

Method and apparatus for detecting flaws in elongated bodies
[NASA-CASE-MFS-19218-1] c14 N74-34860

FAILURE MODES

Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LEW-10856-1] c15 N72-22490

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c14 N74-18090

FAIRINGS

System for deploying and ejecting releasable clamshell fairing sections from spinning sounding rockets
[NASA-CASE-GSC-10590-1] c31 N73-14853

FALLING SPHERES

Device for determining acceleration of gravity by interferometric measurement of travel of falling body
[NASA-CASE-XMP-05844] c14 N71-17587

FAR INFRARED RADIATION

Collimator for analyzing spatial location of near and distant sources of radiation
[NASA-CASE-MFS-20546-2] c14 N73-30389

FAR ULTRAVIOLET RADIATION

Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and ionized high temperature gases
[NASA-CASE-XNP-05802] c33 N71-15641

FARM CROPS

Solar powered pump
[NASA-CASE-NPO-13567-1] c37 N75-22746

FASTENERS

Force measuring instrument for structural members, particularly fastening bolts or studs
[NASA-CASE-XMP-00456] c14 N70-34705

Lightweight life preserver without fastening devices
[NASA-CASE-XMS-00864] c05 N7C-36493

Nut and bolt fastener permitting all-directional movement of skin sections with respect to supporting structure
[NASA-CASE-XLA-01807] c15 N71-10799

Releasable, pin-type fastener, easily operated during EVA
[NASA-CASE-ARC-10140-1] c15 N71-17653

Ultrasonic wrench for applying vibratory energy to mechanical fasteners
[NASA-CASE-MFS-20586] c15 N71-17686

Design and development of electric connectors for rigid and semirigid coaxial cables
[NASA-CASE-XNP-04732] c09 N71-20851

Design, development, and characteristics of latching mechanism for operation in limited access areas
[NASA-CASE-XMS-03745] c15 N71-21076

Design and development of module joint clamping device for application to solar array construction
[NASA-CASE-XNP-02341] c15 N71-21531

Threadless fastener apparatus comprising receiving apertures for plurality of articles, self-locked condition, and capable of using nonmalleable materials in both ends
[NASA-CASE-YFR-05302] c15 N71-23254

Development of resilient fastener for attaching skin of aerospace vehicles to permit movement of skin relative to framework
[NASA-CASE-XLA-01027] c31 N71-24035

Pneumatic mechanism for releasing hook and loop fasteners between large rigid structures
[NASA-CASE-XMS-10660-1] c15 N71-25975

FATIGUE (MATERIALS)

Servocontrol system for measuring local stresses at geometric discontinuity in stressed material
[NASA-CASE-XLA-08530] c32 N71-25360

FATIGUE LIFE

Fatigue resistant shear pin with hollow shaft and two plugs
[NASA-CASE-XLA-09122] c15 N69-27505

Improving load capacity and fatigue life of rolling element systems in rockets and missiles
[NASA-CASE-XLE-02999] c15 N71-16052

Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LEW-10856-1] c15 N72-22490

Fatigue life of hybrid antifriction bearings at ultrahigh speeds
[NASA-CASE-LEW-11152-1] c15 N73-32359

FATIGUE TESTING MACHINES

Cryostat for use with horizontal fatigue testing machines at low temperatures
[NASA-CASE-XMP-10968] c14 N71-24234

Fatigue testing apparatus with light shield and infrared reflector for high temperature evaluation of loaded sheet samples
[NASA-CASE-XLA-01782] c14 N71-26136

FATIGUE TESTS

Fatigue testing device applying random discrete load levels to test specimen and applicable to aircraft structures
[NASA-CASE-XLA-02131] c32 N70-42003

FATS

Cross linked polymer system for oil or fat absorption properties
[NASA-CASE-NPO-11609-1] c06 N72-22114

FECES

Fecal waste disposal container
[NASA-CASE-XMS-06761] c05 N69-23192

FEED SYSTEMS

Nonconductive tube as feed system for plasma thruster
[NASA-CASE-XLE-02902] c25 N71-21694

Method and apparatus for pressurizing propellant tanks used in propulsion motor feed system
[NASA-CASE-XNP-00650] c27 N71-28929

Pressurized tank for feeding liquid waste into processing equipment

[NASA-CASE-LAR-10365-1] c05 N72-27102
 Pressurized inert gas feed for lighting system
 [NASA-CASE-KSC-10644] c09 N72-27227
 Dual frequency feed systems for Cassegrainian
 antennas
 [NASA-CASE-NPO-13091-1] c09 N73-12214
 Improved injector with porous plug for bubbles
 of gas into feed lines of electrically
 conductive liquid
 [NASA-CASE-NPO-11377] c15 N73-27406

FEEDBACK
 RC networks with voltage amplifier, RC input
 circuit, and positive feedback
 [NASA-CASE-ARC-10020] c10 N72-17172
 Multistage feedback shift register with states
 decomposable into cycles of equal length
 [NASA-CASE-NPO-11082] c08 N72-22167
 Inverter oscillator with voltage feedback
 [NASA-CASE-NPO-10760] c09 N72-25254
 Fiber distributed feedback laser
 [NASA-CASE-NPO-12531-1] c36 N75-13243

FEEDBACK AMPLIFIERS
 Development of system with electrical properties
 which vary with changes in temperature for use
 with feedback loop in operational amplifier
 circuit
 [NASA-CASE-MSC-13276-1] c14 N71-27058
 Phase locked demodulator with bandwidth
 switching amplifier circuit
 [NASA-CASE-XNP-01107] c10 N71-28859
 Monostable multivibrator for producing output
 pulse widths with positive feedback NOR gates
 [NASA-CASE-MSC-13492-1] c10 N71-28860

FEEDBACK CIRCUITS
 Low power drain transistor feedback circuit
 [NASA-CASE-XGS-04999] c09 N69-24317
 Linear three-tap feedback shift register
 [NASA-CASE-NPO-10351] c08 N71-12503
 Frequency control network for current feedback
 oscillators converting dc voltage to ac or
 higher dc voltages
 [NASA-CASE-GSC-10041-1] c10 N71-19418
 Feedback integrating circuit with grounded
 capacitor for signal processing
 [NASA-CASE-IAC-10607] c10 N71-23669
 Development of idler feedback system to reduce
 electronic noise problem in two parametric
 amplifiers
 [NASA-CASE-LAR-10253-1] c09 N72-25258
 Linear shift register with feedback logic for
 generating pseudonoise linear recurring binary
 sequences
 [NASA-CASE-NPO-11406] c08 N73-12175

FEEDBACK CONTROL
 Describing continuous analog to digital
 converter with parallel digital output and
 nonlinear feedback
 [NASA-CASE-IAC-04031] c08 N71-18594
 Pulsed magnetic core memory element with
 blocking oscillator feedback for interrogation
 without loss of digital information
 [NASA-CASE-XGS-03303] c08 N71-18595
 Binary to decimal decoder logic circuit design
 with feedback control and display device
 [NASA-CASE-XKS-06167] c08 N71-24890
 Feedback control for direct current motor to
 achieve constant speed under varying loads
 [NASA-CASE-MPS-14610] c09 N71-28886
 Feedback controller for sampling error signals
 within single control formulation time interval
 [NASA-CASE-GSC-10554-1] c08 N71-29033
 Closed loop servosystem for variable speed tape
 recorders onboard spacecraft
 [NASA-CASE-NPO-10700] c07 N71-33613
 Development of aerodynamic control system to
 control flutter over large range of
 oscillatory frequencies using stability
 augmentation techniques
 [NASA-CASE-LAR-10682-1] c02 N73-26004
 Regulated dc-to-dc converter for voltage step-up
 or step-down with input-output isolation
 [NASA-CASE-HQN-10792-1] c09 N74-11049
 Diffused waveguiding capillary tube with
 distributed feedback for a gas laser
 [NASA-CASE-NPO-13544-1] c36 N75-15974
 System and method for tracking a signal source
 --- employing feedback control
 [NASA-CASE-HQN-10880-1] c32 N75-30385

Distributed feedback acoustic surface wave
 oscillator
 [NASA-CASE-NPO-13673-1] c33 N75-32323

FEEDBACK FREQUENCY MODULATION
 Method and apparatus for communicating through
 ionized layer of gases surrounding spacecraft
 during reentry into planetary atmospheres
 [NASA-CASE-XLA-01127] c07 N70-41372
 Characteristics of data-aided carrier tracking
 loop used for tracking carrier in angle
 modulated communications system
 [NASA-CASE-NPO-11282] c10 N73-16205

FEEDERS
 Automatic real-time pair-feeding system for
 animals
 [NASA-CASE-ARC-10302-1] c04 N74-15778

FERRITES
 Magnetic recording head composed of ferrite core
 coated with thin film of aluminum-iron-silicon
 alloy
 [NASA-CASE-GSC-10097-1] c08 N71-27210
 Apparatus for measuring the ferrite content of
 austenitic stainless steel weld material
 [NASA-CASE-MPS-22907-1] c26 N75-10210
 Method for making conductors for ferrite memory
 arrays --- from pre-formed metal conductors
 [NASA-CASE-LAR-10994-1] c24 N75-13032

FERROMAGNETISM
 High temperature ferromagnetic cobalt-base alloy
 for electrical power generating equipment
 [NASA-CASE-XLE-03629] c17 N71-23248

FIBER OPTICS
 Fiber optic transducers for monitoring and
 analysis of vibration in aerospace vehicles
 and onboard equipment
 [NASA-CASE-XMF-02433] c14 N71-10616

FIBERS
 Process for fiberizing ceramic materials with
 high fusion temperatures and tensile strength
 [NASA-CASE-XNP-00597] c18 N71-23088
 Fiber separating and cleaning method and apparatus
 [NASA-CASE-LAR-11224-1] c15 N74-20072

FIELD EFFECT TRANSISTORS
 Frequency to analog converters with unipolar
 field effect transistor for determining
 potential charge by pulse duration of input
 signal
 [NASA-CASE-XNP-07040] c08 N71-12500
 Voltage controlled, variable frequency
 relaxation oscillator with MOSFET variable
 current feed
 [NASA-CASE-GSC-10022-1] c10 N71-25882
 Circuitry for high input impedance video
 processor with high noise immunity
 [NASA-CASE-NPO-10199] c09 N72-17156
 Development and characteristics of data
 multiplexer circuit using field effect
 transistors arranged in tree switching
 configuration
 [NASA-CASE-NPO-11333] c08 N72-22162
 Single integrated circuit chip with field effect
 transistor
 [NASA-CASE-GSC-10835-1] c09 N72-33205
 Radiation hardening of MOS devices by boron ---
 for stabilizing gate threshold potential of
 field effect device
 [NASA-CASE-GSC-11425-1] c24 N74-20329
 Stored charge transistor
 [NASA-CASE-NPO-11156-2] c33 N75-31331

FIELD EMISSION
 Electrode with multiple columnar conductors for
 limiting field emission current
 [NASA-CASE-FEC-10015-2] c10 N72-27246

FILAMENT WINDING
 Tool attachment for spreading or moving away
 loose elements from terminal posts during
 winding of filamentary elements
 [NASA-CASE-XMF-02107] c15 N71-10809
 Fabrication of filament wound propellant tank
 for cryogenic storage
 [NASA-CASE-XLE-03803-2] c15 N71-17651
 Twisted wire or tube superconductor for filament
 windings
 [NASA-CASE-LEW-11015] c26 N73-32571

FILAMENTS
 Refractory filament series circuitry for radiant
 heater
 [NASA-CASE-XLE-00387] c33 N70-34612

- Controlled diffusion reaction process for masking substrate of twisted multifilament superconductive ribbon
[NASA-CASE-LEW-11726-1] c26 N73-26752
- FILLERS**
Filling honeycomb matrix with deaerated paste filler
[NASA-CASE-XMS-01108] c15 N69-24322
- FILM COOLING**
Multislot film cooled pyrolytic graphite rocket nozzle
[NASA-CASE-INP-04389] c28 N71-20942
- FILMS**
Apparatus for obtaining isotropic irradiation on film emulsion from parallel radiation source
[NASA-CASE-MPS-20095] c24 N72-11595
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c35 N75-11307
- FILTERS**
Development of filter system for control of outgas contamination in vacuum conditions using absorbent beds of molecular sieve zeolite, silica gel, and charcoal
[NASA-CASE-MPS-14711] c15 N71-26185
Heated tungsten filter for removing oxygen impurities from cesium
[NASA-CASE-INP-04262-2] c17 N71-26773
Centrifugal lyophilic separator
[NASA-CASE-LAR-10194-1] c12 N74-30608
- FINS**
Thrust and attitude control apparatus using jet nozzle in movable canard surface or fin configuration
[NASA-CASE-XLE-03583] c31 N71-17629
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c02 N74-30421
- FIRE EXTINGUISHERS**
A method and a system for extinguishing a fire within a sealed battery
[NASA-CASE-MPS-22952-1] c37 N75-15055
- FIRE PREVENTION**
Hydrogen fire blink detector for high altitude rocket or ground installation
[NASA-CASE-MPS-15063] c14 N72-25412
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c18 N74-11366
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c14 N74-21019
- FIREPROOFING**
Fireproof potassium silicate coating composition, insoluble in water after application
[NASA-CASE-GSC-10072] c18 N71-14014
Intumescent paint containing nitrile rubber for fire protection
[NASA-CASE-ARC-10196-1] c18 N73-13562
Para-benzoquinone dioxide and concentrated mineral acid processed to yield intumescent or fire resistant, heat insulating materials
[NASA-CASE-ARC-10304-1] c18 N73-26572
Process for developing flame retardant elastomeric composition textiles for use in space suits
[NASA-CASE-MSC-14331-1] c18 N73-27501
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c06 N74-12814
- FIBERS**
Device for generating and controlling combustion products for testing of fire detection system
[NASA-CASE-GSC-11095-1] c14 N72-10375
Device for detecting hydrogen fires onboard high altitude rockets
[NASA-CASE-MPS-13130] c10 N72-17173
- FIRING (IGNITING)**
Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922
- FISSIONABLE MATERIALS**
Nuclear gaseous reactor for heating working fluid to high temperatures
[NASA-CASE-XLE-00321] c22 N70-34572
- FITTINGS**
Design and development of quick release connector
[NASA-CASE-XLA-01141] c15 N71-13789
Development and characteristics of strainer for flared tube fitting
[NASA-CASE-XLA-05056] c15 N72-11389
- FIXED WINGS**
Design of supersonic aircraft with novel fixed, swept wing planform
[NASA-CASE-XLA-04451] c02 N71-12243
- FIXTURES**
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c15 N74-32918
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c15 N74-32926
- FLAME PROBES**
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c14 N74-27875
Flame detector operable in presence of proton radiation
[NASA-CASE-MPS-21577-1] c03 N74-29410
- FLAME SPRAYING**
Flame or plasma spraying for molybdenum coating of carbon or graphite surfaces to prevent oxidative corrosion
[NASA-CASE-XLA-00302] c15 N71-16077
Modification of polyurethanes with alkyl halide resins, inorganic salts, and encapsulated volatile and reactive halogen for fuel fire control
[NASA-CASE-ARC-10098-1] c06 N71-24739
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c15 N74-11301
- FLAMES**
Anodizing method for providing metal surfaces with temperature reducing coatings against flames
[NASA-CASE-XLE-00035] c33 N71-29151
- FLAMMABILITY**
Flammability test chamber for testing materials in certain predetermined environments
[NASA-CASE-KSC-10126] c11 N71-24985
Development of apparatus for testing burning rate and flammability of materials
[NASA-CASE-XMS-09690] c33 N72-25913
- FLANGES**
Cassegrain antenna subreflector flange for suppressing ground noise and increasing antenna transmitting efficiency
[NASA-CASE-INP-00683] c09 N70-35425
Light baffle with oblate hemispheroid surface and shading flange
[NASA-CASE-NPO-10337] c14 N71-15604
- FLAPS (CONTROL SURFACES)**
Upper surface, external flow, jet-augmented flap configuration for high wing jet aircraft for noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332
Assembly for opening flight capsule stabilizing and decelerating flaps with reference to capsule recovery
[NASA-CASE-XMF-00641] c31 N70-36410
Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft
[NASA-CASE-LAR-10249-1] c02 N71-26110
Characteristics of system for providing yaw control of vehicles at high supersonic and hypersonic speeds by deflecting flaps mounted on upper wing surface
[NASA-CASE-LAR-11140-1] c02 N73-20008
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c07 N75-24736
- FLARED BODIES**
Development and characteristics of strainer for flared tube fitting
[NASA-CASE-XLA-05056] c15 N72-11389
- FLAT CONDUCTORS**
Method of making molded electric connector for use with flat conductor cables
[NASA-CASE-XMF-03498] c15 N71-15986
Shielded flat conductor cable fabricated by electroless and electrolytic plating
[NASA-CASE-MPS-13687] c09 N71-28691
Shielded flat conductor cable of ribbonlike wires laminates in thin flexible insulation
[NASA-CASE-MPS-13687-2] c09 N72-22198

Separable flat cable connector with isolated electrical contacts
[NASA-CASE-MFS-20757] c09 N72-28225

PLAT PLATES
Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks
[NASA-CASE-XLE-02624] c12 N69-39988
Exponential horn, copper plate, magnetic hammer, and anvil in apparatus for making diamonds
[NASA-CASE-MFS-20698] c15 N72-20446

FLEXIBILITY
Weatherproof helix antenna
[NASA-CASE-XKS-08485] c07 N71-19493
Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01855] c15 N71-28937
Flexible joint for pressurizable garment
[NASA-CASE-MSC-110/72] c05 N74-32546

FLEXIBLE BODIES
Flexible backup bar for welding awkwardly shaped structures
[NASA-CASE-XMP-00722] c15 N70-40204
Characteristics of hermetically sealed electric switch with flexible operating capability
[NASA-CASE-XNP-05808] c09 N71-12518
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GAS ANALYSIS
Gas analyzer for bi-gaseous mixtures suitable
for use in test facilities
[NASA-CASE-XLA-01131] c14 N71-10774
Describing crystal oscillator instrument for
detecting condensable gas contaminants in
vacuum apparatus

- [NASA-CASE-NPO-10144] c14 N71-17701
Design and characteristics of time of flight
mass spectrometer to measure or analyze gases
at low pressures and time of flight of single
gas molecule
[NASA-CASE-XNP-01056] c14 N71-23041
Microwave double resonance spectroscopy
absorption cell for gas analysis
[NASA-CASE-LAR-10305] c14 N71-26137
Ion microprobe mass spectrometer with cooled
electrode target for analyzing traces of fluids
[NASA-CASE-ERC-10014] c14 N71-28863
Development and characteristics of injection
system for use with gas chromatograph
[NASA-CASE-ARC-10344-1] c14 N72-21433
Nondispersive gas analysis using radiation
detection for quantitative analysis
[NASA-CASE-ARC-10308-1] c06 N72-31141
Apparatus for analyzing gas samples in
containers including vacuum chamber, mass
spectrometer, and gas chromatography
[NASA-CASE-GSC-10903-1] c14 N73-12444
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amounts in gas samples
[NASA-CASE-MSC-14428-1] c06 N74-19776
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[NASA-CASE-GSC-11492-1] c14 N74-26949
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[NASA-CASE-ARC-10322-1] c14 N74-27875
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spectrometers
[NASA-CASE-LAR-11428-1] c14 N74-34857
Nulling device for detection of trace gases by
NDIR absorption
[NASA-CASE-ARC-10760-1] c35 N75-12275
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[NASA-CASE-LAR-11675-1] c74 N75-20091
NDIR gas analyzer based on absorption modulation
ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c35 N75-30502
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Payload soft landing system using stowable gas bag
[NASA-CASE-XLA-05881] c31 N71-16085
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operating in high temperature, low gravity
environments
[NASA-CASE-XNP-00515] c15 N70-34664
Slit regulated gas journal bearing
[NASA-CASE-XNP-00476] c15 N70-38620
Air bearings for spacecraft gyros
[NASA-CASE-XNP-00339] c15 N70-39896
Air bearings for near frictionless transfer of
loads from one body to another
[NASA-CASE-XNP-01887] c15 N71-10617
Fluid power transmission and gas bearing system
[NASA-CASE-XMS-01445] c12 N71-16031
Bismuth and lead surface coatings for gas
bearings in aerospace engineering
[NASA-CASE-XGS-02011] c15 N71-20739
Swivel support for gas bearing for position
adjustment between ball and supporting cup
[NASA-CASE-XNP-07808] c15 N71-23812
Low friction gas bearing system for fluid power
transmission to bearing-supported payload
[NASA-CASE-ERC-10097] c15 N71-28465
Gas bearing for model support with capacity for
measuring angular displacement of model in
bearing
[NASA-CASE-XLA-09346] c15 N71-28740
Journal air bearing with cylindrical cup
designed to ride on shaft
[NASA-CASE-MFS-20423] c15 N72-11388
Air bearing for use in exterior environment for
moving heavy loads
[NASA-CASE-WLP-10002] c15 N72-17451
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[NASA-CASE-LEW-11949-1] c37 N75-26378
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detector used in gas chromatograph
[NASA-CASE-XNP-03128] c10 N70-41991
Gas chromatographic method for determining water
in nitrogen tetroxide rocket propellant
[NASA-CASE-NPO-10234] c06 N72-17094
- Development and characteristics of injection
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[NASA-CASE-ARC-10344-1] c14 N72-21433
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hydrogen deuterium mixtures
[NASA-CASE-NPO-11322] c06 N72-25146
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[NASA-CASE-BQN-10756-1] c14 N72-25428
Apparatus for analyzing gas samples in
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spectrometer, and gas chromatography
[NASA-CASE-GSC-10903-1] c14 N73-12444
Gas chromatograph injection system
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[NASA-CASE-LEW-10250-1] c22 N71-28759
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[NASA-CASE-NPO-10309] c15 N69-23190
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[NASA-CASE-XLE-09475-1] c33 N71-15568
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[NASA-CASE-XAC-02877] c14 N70-41681
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[NASA-CASE-XER-11203] c14 N71-28994
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[NASA-CASE-XLE-04599] c22 N72-20597
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crystalline material from dense gaseous medium
[NASA-CASE-NPO-10440] c15 N72-21466
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vibrating diaphragm for measuring density and
pressure of gaseous environment
[NASA-CASE-ARC-10263-1] c14 N72-22438
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[NASA-CASE-MSC-13332-1] c14 N72-21408
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[NASA-CASE-LAR-11434-1] c14 N74-22112
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absorption-absorption trace gas detector
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the presence of a specific pollutant in air
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[NASA-CASE-NPO-13231-1] c45 N75-27585
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accelerator with interconnected annular and
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slow-wave structure in gas discharge plasma

- [NASA-CASE-XER-11019] c09 N71-23598
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- Method and apparatus for producing very low temperature refrigeration based on gas pressure balance [NASA-CASE-XNP-08877] c15 N71-23025
- Gas-operated actuator with cyclic motion of expansion chamber [NASA-CASE-NPO-11340] c15 N72-33477
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- Burst diaphragm flow initiator for installation in short duration wind tunnels [NASA-CASE-MPS-12915] c11 N71-17600
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- Compact hydrogenator [NASA-CASE-NPO-11682-1] c15 N74-15127
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- Actuator operated by electrolytic drive gas generator and evacuator [NASA-CASE-NPO-11369] c15 N73-13467
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[NASA-CASE-XGS-00587] c15 N70-35087
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[NASA-CASE-XLE-00815] c15 N70-35407
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[NASA-CASE-NPO-10890] c11 N73-12265
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[NASA-CASE-IGS-02441] c15 N70-41629
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[NASA-CASE-IGS-01881] c09 N70-40123
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[NASA-CASE-XGS-04227] c15 N71-21744
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[NASA-CASE-XNP-00920] c15 N71-15906
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[NASA-CASE-XMF-01669] c21 N71-23289
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[NASA-CASE-MSC-12111-1] c02 N71-11039
Platform with several ground effect pads and plenum chambers
[NASA-CASE-MFS-14685] c31 N71-15689
Design and development of active control system for air cushion vehicle to reduce or eliminate effects of excessive vertical vibratory acceleration
[NASA-CASE-LAR-10531-1] c02 N73-13023
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c11 N74-34672
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GROUND STATIONS

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[NASA-CASE-GSC-10087-1] c02 N71-19287

Spacecraft transponder and ground station radar system for mapping planetary surfaces
[NASA-CASE-NPO-11001] c07 N72-21118

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Equipment for testing of ground station ranging equipment and spacecraft transponders
[NASA-CASE-IMS-05454-1] c07 N71-12391

Controlled release device for use in launching rockets or missiles
[NASA-CASE-XKS-03338] c15 N71-24043

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[NASA-CASE-XGS-04480] c16 N69-27491

Closed loop radio communication ranging system to determine distance between moving airborne vehicle and fixed ground station
[NASA-CASE-INP-01501] c21 N70-41930

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[NASA-CASE-ERC-10324] c07 N72-25173

GUIDANCE (MOTION)
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[NASA-CASE-MSC-12111-1] c02 N71-11039

Development of adjustable attitude guide block for setting pins perpendicular to irregular convex work surface
[NASA-CASE-XLA-07911] c15 N71-15571

Longitudinal film gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935

Combination guide and rotary bearing for freely moving shaft
[NASA-CASE-XLA-00013] c15 N71-29136

Guide member for stabilizing cable of open shaft elevator
[NASA-CASE-KSC-10513] c15 N72-25453

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Light sensitive digital aspect sensor for attitude control of earth satellites or space probes
[NASA-CASE-XGS-00359] c14 N70-34158

Guidance analyzer having suspended spacecraft simulating sphere for astronavigation
[NASA-CASE-INP-05572] c14 N71-15621

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[NASA-CASE-XAC-05489-1] c15 N71-26673

Development of light sensing system for controlled orientation of object relative to sun or other light source
[NASA-CASE-NPO-11311] c14 N72-25414

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[NASA-CASE-MFS-22905-1] c35 N75-10407

Sun direction detection system --- for use in controlling the attitude of a vehicle
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Gunn effect microwave diodes with RF shielding
[NASA-CASE-ERC-10119] c26 N72-21701

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[NASA-CASE-XER-07895] c26 N72-25679

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[NASA-CASE-NPO-13044-1] c14 N74-15094

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[NASA-CASE-XAC-01662] c14 N71-23037

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[NASA-CASE-MFS-20385] c09 N71-24904

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[NASA-CASE-INP-00580] c11 N70-35383

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[NASA-CASE-MFS-20453] c15 N71-29133

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[NASA-CASE-NPO-13465-1] c71 N75-13593

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[NASA-CASE-MFS-20418] c14 N73-24473
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[NASA-CASE-MFS-20284-1] c05 N74-12778

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[NASA-CASE-XLE-00267] c28 N70-33356
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[NASA-CASE-GSC-10188-1] c23 N71-24725
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[NASA-CASE-NPO-10831] c33 N72-20915
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[NASA-CASE-NPO-10634] c23 N72-25619
An improved heat exchanger --- suited for low volume flow
[NASA-CASE-MFS-22991-1] c34 N75-10366
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[NASA-CASE-LEW-12252-1] c34 N75-19579
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Heat flux sensor assembly with proviso for heat shield to reduce radiative transfer between sensor elements
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[NASA-CASE-XPR-03802] c33 N71-23085
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[NASA-CASE-NPO-10828] c33 N72-17948

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Electromagnetic energy detection by thermal sensor with vibrating electrode
[NASA-CASE-XAC-10768] c09 N71-18830
Specific wavelength colorimeter --- for measuring given solute concentration in test sample

[NASA-CASE-MSC-14081-1]

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[NASA-CASE-XMP-05843] c03 N71-11055
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[NASA-CASE-MFS-20333] c09 N71-13486
Double-wall isothermal cylinder containing heat transfer fluid thermal reservoir as spacecraft insulation cover
[NASA-CASE-MFS-20355] c33 N71-25353
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[NASA-CASE-LEW-11390-2] c24 N73-20763
Heat pipe production of high purity radioiodine for thyroid measurements
[NASA-CASE-LEW-11390-3] c11 N73-28128
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[NASA-CASE-GSC-11619-1] c34 N75-12222

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[NASA-CASE-NPO-10677] c05 N72-11084
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[NASA-CASE-NPO-11417] c15 N73-24513

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[NASA-CASE-XLE-03307] c33 N71-14035
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[NASA-CASE-HSC-11817-1] c15 N71-26611
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Preparation of nickel alloys for jet turbine blades operating at high temperatures
[NASA-CASE-XLE-00151] c17 N70-33283
Nickel alloy series for aerospace structures subjected to high temperatures
[NASA-CASE-XLE-00283] c17 N70-36616
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[NASA-CASE-XLE-02991] c17 N71-16025
Brazing alloy adapted for brazing corrosion resistant steel to refractory metals, also for brazing refractory metals to other refractory metals
[NASA-CASE-INP-03063] c17 N71-23365
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[NASA-CASE-LEW-10805-1] c15 N73-13465
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[NASA-CASE-NPO-13120-1] c18 N73-23629
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[NASA-CASE-LAR-10170-1] c15 N74-11301
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[NASA-CASE-MFS-22926-1] c25 N75-19380
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[NASA-CASE-MFS-22324-1] c27 N75-27160
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Oven for heat treating heat shields
[NASA-CASE-XMS-04318] c15 N69-27871

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[NASA-CASE-XMS-00486] c33 N70-33344

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[NASA-CASE-XLA-00349] c33 N70-37979

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[NASA-CASE-XMS-04142] c31 N70-41631

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[NASA-CASE-XMS-02677] c31 N70-42075

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[NASA-CASE-XMP-0656] c06 N71-11242

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[NASA-CASE-XMP-0652] c06 N71-11243

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[NASA-CASE-XMP-05279] c18 N71-16124

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[NASA-CASE-XLE-03432] c33 N71-24145

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[NASA-CASE-MSC-12047-1] c31 N71-25434

Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits
[NASA-CASE-MSC-12109] c18 N71-26285

Solar cell assembly
[NASA-CASE-LEW-11549-1] c03 N74-33484

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[NASA-CASE-XMS-02087] c09 N70-41717

Development and characteristics of calorimeter with integral heat sink for maintenance of constant temperature
[NASA-CASE-XMP-04208] c33 N71-29051

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Black body radiometer design with temperature sensing and cavity heat source cone winding
[NASA-CASE-XMP-05701] c14 N71-26475

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[NASA-CASE-NPO-10753] c03 N72-26031

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[NASA-CASE-NPO-13581-1] c44 N75-27560

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[NASA-CASE-MFS-23167-1] c44 N75-29547

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[NASA-CASE-XLA-00349] c33 N70-37979

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[NASA-CASE-XLE-00345] c15 N70-38020

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[NASA-CASE-XMS-04268] c33 N71-16277

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[NASA-CASE-XMP-05775] c09 N71-20445

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[NASA-CASE-XLA-01551] c14 N71-22989

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[NASA-CASE-NPO-10691] c14 N71-26199

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[NASA-CASE-HSC-12389] c33 N71-29052

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[NASA-CASE-ABC-10178-1] c09 N72-17152

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[NASA-CASE-XLE-05230] c14 N72-27410

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- Valve seat with resilient support ring for venting valves subjected to high pressure sealing loads
[NASA-CASE-IKS-02582] c15 N71-21234
- Apparatus and method capable of receiving large quantity of high pressure helium, removing impurities, and discharging at received pressure
[NASA-CASE-XMP-06888] c15 N71-24044
- Liquid aerosol dispenser with explosively driven piston to compress light gas to extremely high pressure
[NASA-CASE-MFS-20829] c12 N72-21310
- HIGH RESOLUTION**
- High resolution radar transmitting system for transmitting optical pulses to targets
[NASA-CASE-NPO-11426] c07 N73-26119
- High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c35 N75-22688
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- Compact bellows spirometer for high speed and high altitude space travel
[NASA-CASE-XAR-01547] c05 N69-21473
- High speed low level voltage commutating switch
[NASA-CASE-XAC-00060] c09 N70-39915
- Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225
- Flow meter for measuring stagnation pressure in boundary layer around high speed flight vehicle
[NASA-CASE-XFR-02007] c12 N71-24692
- Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LEW-10856-1] c15 N72-22490
- Two stage light gas plasma projectile accelerator
[NASA-CASE-MPS-22287-1] c11 N74-18891
- High speed data monitoring apparatus --- with shift register
[NASA-CASE-ARC-10899-1] c35 N75-25127
- HIGH SPEED CAMERAS**
- Electrically operated rotary shutter for television camera aboard spacecraft
[NASA-CASE-XNP-00637] c14 N70-40273
- HIGH STRENGTH**
- Method for making fiber composites with high strength at high temperatures
[NASA-CASE-LEW-10424-2-2] c18 N72-25539
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- High strength, corrosion resistant cobalt-based alloys for aerospace structures
[NASA-CASE-XLE-00726] c17 N71-15644
- High strength aluminum casting alloy for cryogenic applications in aerospace engineering
[NASA-CASE-XMP-02786] c17 N71-20743
- Production of high strength refractory compounds and microconstituents into refractory metal matrix
[NASA-CASE-XLE-03940] c18 N71-26153
- High strength nickel based alloys
[NASA-CASE-LEW-10874-1] c17 N72-22535
- Cobalt-tungsten alloys with superior strength at elevated temperatures
[NASA-CASE-LEW-10436-1] c17 N73-32415
- HIGH STRENGTH STEELS**
- Prevention of hydrogen embrittlement of high strength steel --- by additive potassium hydroxide in hydrazine
[NASA-CASE-NPO-12122-1] c27 N74-20397
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- High temperature source of thermal radiation
[NASA-CASE-XLE-00490] c33 N70-34545
- Thermionic diode switch for use in high temperature region to chop current from dc source
[NASA-CASE-NPO-10404] c03 N71-12255
- Hypersonic test facility for studying ablation in models under high pressure and high temperature
[NASA-CASE-XLA-00378] c11 N71-15925
- Process for fiberizing ceramic materials with high fusion temperatures and tensile strength
[NASA-CASE-XNP-00597] c18 N71-23088
- Induction heating of metallurgical specimens to high temperatures in coil furnace
[NASA-CASE-XLE-04026] c14 N71-23267
- Method of forming ceramic to metal seals impervious to gaseous and liquid mercury at high temperature
[NASA-CASE-XNP-01263-2] c15 N71-26312
- Method for making fiber composites with high strength at high temperatures
[NASA-CASE-LEW-10424-2-2] c18 N72-25539
- Superalloys from prealloyed powders at high temperatures
[NASA-CASE-LEW-10805-1] c15 N73-13465
- High temperature capacitor --- using beryllium oxide wafers
[NASA-CASE-LEW-11938-1] c33 N75-16746
- Low to high temperature energy conversion system --- using ammonia
[NASA-CASE-NPO-13510-1] c44 N75-16972
- HIGH TEMPERATURE AIR**
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c12 N73-28144
- HIGH TEMPERATURE ENVIRONMENTS**
- High speed infrared furnace
[NASA-CASE-XLE-10466] c17 N69-25147
- Nickel alloy series for aerospace structures subjected to high temperatures
[NASA-CASE-XLE-00283] c17 N70-36616
- Water cooled gage for strain measurements in high temperature environments
[NASA-CASE-XNP-09205] c14 N71-17657
- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c09 N74-29577
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c33 N75-29320
- HIGH TEMPERATURE FLUIDS**
- Self-cycling fluid heater for heating continuous fluid stream to ultrahigh temperatures to facilitate chemical reactions
[NASA-CASE-MSC-15567-1] c33 N73-16918
- HIGH TEMPERATURE GASES**
- Multiple wavelength radiation measuring instrument for determining hot body or gas temperature
[NASA-CASE-XLE-00011] c14 N70-41946
- Ablative resins used for retarding regression in ablative material
[NASA-CASE-XLE-05913] c33 N71-14032
- Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and ionized high temperature gases
[NASA-CASE-XNP-09802] c33 N71-15641
- Generation of high temperature, high mass flow, and high Reynolds number air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c12 N73-25262
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- Production of barium fluoride-calcium fluoride composite lubricant for bearings or seals
[NASA-CASE-XLE-08511-2] c18 N71-16105
- Self lubricating fluoride-metal composite materials for outer space applications
[NASA-CASE-XLE-08511] c18 N71-23710
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[NASA-CASE-XLA-00147] c25 N70-34661
- HIGH TEMPERATURE PROPELLANTS**
- Development of system for delivering vaporized mercury to electron bombardment ion engine
[NASA-CASE-NPO-10737] c28 N72-11709
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[NASA-CASE-ABC-10280-1] c18 N70-34695
- Gas cooled high temperature thermocouple
[NASA-CASE-XLE-09475-1] c33 N71-15568
- Fatigue testing apparatus with light shield and infrared reflector for high temperature evaluation of loaded sheet samples
[NASA-CASE-XLA-01782] c14 N71-26136
- HIGH TEMPERATURE TESTS**
- High-temperature, high-pressure spherical segment valve
[NASA-CASE-XAC-00074] c15 N70-34817
- Test apparatus for determining mechanical properties of refractory materials at high temperatures in vacuum or inert atmospheres
[NASA-CASE-XLE-00335] c14 N70-35368

- Apparatus for testing metallic and nonmetallic beams or rods by bending at high temperatures in vacuum or inert atmosphere
[NASA-CASE-XLE-01300] c15 N70-41993
- HIGH VACUUM**
Epoxy resin sealing device for electrochemical cells in high vacuum environments
[NASA-CASE-XGS-02630] c03 N71-22974
Device for high vacuum film deposition with electromagnetic ion steering
[NASA-CASE-NPO-10331] c09 N71-26701
Absolute pressure measuring device for measuring gas density level in high vacuum range
[NASA-CASE-LAR-1C000] c14 N73-30394
- HIGH VACUUM ORBITAL SIMULATOR**
Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
[NASA-CASE-XNP-07488] c11 N71-18773
- HIGH VOLTAGES**
Hollow spherical electrode for shielding dielectric junction between high voltage conductor and insulator
[NASA-CASE-XLE-03778] c09 N69-21542
High voltage cable for use in high intensity ionizing radiation fields
[NASA-CASE-XNP-00738] c09 N70-38201
High voltage pulse generator for testing flash and ignition limits of nonmetallic materials in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518
High voltage transistor circuit
[NASA-CASE-XNP-06937] c09 N71-19516
High voltage divider system for attenuating high voltages to convenient levels suitable for introduction to measuring circuits
[NASA-CASE-XLE-02008] c09 N71-21583
High voltage distributor
[NASA-CASE-GSC-11849-1] c09 N74-22873
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[NASA-CASE-NPO-13482-1] c03 N74-30448
- HIGHWAYS**
Traffic survey system --- using optical scanners
[NASA-CASE-MPS-22631-1] c35 N75-13226
- HISTOGRAMS**
System for storing histogram data in optimum number of elements
[NASA-CASE-XNP-05785] c08 N69-21928
- HOLDERS**
Water cooled contactors for holding rotating carbon arc anode
[NASA-CASE-XMS-03700] c15 N69-24266
Quick disconnect latch and handle combination for mounting articles on walls or supporting bases in spacecraft under zero gravity conditions
[NASA-CASE-MPS-11132] c15 N71-17649
Holder for high frequency crystal resonators
[NASA-CASE-XNP-03637] c15 N71-21311
Design and construction of mechanical probe for determining if object is properly secured
[NASA-CASE-MPS-20760] c14 N72-33377
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[NASA-CASE-XKS-04614] c15 N69-21460
- HOLOGRAPHY**
Development of focused image holography with extended sources
[NASA-CASE-ERC-10019] c16 N71-15551
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[NASA-CASE-MPS-20074] c16 N71-15565
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[NASA-CASE-ERC-10017] c16 N71-15567
Method and means for recording and reconstructing holograms without use of reference beam
[NASA-CASE-ERC-10020] c16 N71-26154
Multiple image storing system for obtaining holographic record on film of high speed projectile
[NASA-CASE-MPS-20596] c14 N72-17324
Thin film analyzer utilizing holographic techniques
[NASA-CASE-MPS-20823-1] c16 N73-30476
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[NASA-CASE-MPS-21455-1] c16 N74-15146
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[NASA-CASE-MPS-21087-1] c14 N74-17153
Holography utilizing surface plasmon resonances
[NASA-CASE-MPS-22040-1] c14 N74-26946
An optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c13 N74-32780
A holographic motion picture camera
[NASA-CASE-MPS-22517-1] c14 N74-33943
Holographic system for nondestructive testing
[NASA-CASE-MPS-21704-1] c35 N75-25124
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[NASA-CASE-MPS-22537-1] c35 N75-27328
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[NASA-CASE-ERC-10324] c07 N72-25173
- HONEYCOMB CORES**
Technique for making foldable, inflatable, plastic honeycomb core panels for use in building and bridge structures, light and radio wave reflectors, and spacecraft
[NASA-CASE-XLA-03492] c15 N71-22713
Heat treatment and tooling for forming shapes from thermosetting honeycomb core sheets
[NASA-CASE-NPO-11036] c15 N72-24522
Honeycomb core structures of minimum surface tubule sections
[NASA-CASE-ERC-10363] c18 N72-25541
- HONEYCOMB STRUCTURES**
Filling honeycomb matrix with deaerated paste filler
[NASA-CASE-XMS-01108] c15 N69-24322
Inflatable honeycomb panel element for lightweight structures usable in space stations and other construction
[NASA-CASE-XLA-00204] c32 N70-36536
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[NASA-CASE-XLE-00703] c15 N71-15967
Method and apparatus for fabrication of heat insulating and ablative reentry structure
[NASA-CASE-XMS-02009] c33 N71-20834
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[NASA-CASE-XNP-01402] c18 N71-21651
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[NASA-CASE-XNP-05046] c33 N71-28892
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[NASA-CASE-ERC-10364] c18 N72-25540
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[NASA-CASE-MSC-12357] c15 N73-12489
Technique for bonding --- process for molding silicone elastomer into fiberglass honeycomb panel
[NASA-CASE-LAR-10073-1] c32 N74-23449
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[NASA-CASE-MPS-21485-1] c15 N74-25968
- HOPPERS**
Design and development of device to prevent clogging in hoppers containing particulate materials
[NASA-CASE-LAR-10961-1] c15 N73-12496
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[NASA-CASE-XLA-03724] c14 N69-27461
Multi-lobar scan horizon sensor
[NASA-CASE-XGS-00809] c21 N70-35427
Attitude orientation control of spin stabilized final stage space vehicles, using horizon scanners
[NASA-CASE-XLA-00281] c21 N70-36943
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[NASA-CASE-XGS-01784] c10 N71-20782
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HORIZONTAL SPACECRAFT LANDING

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Method and equipment for locating earth infrared horizon from space, independent of season and latitude
[NASA-CASE-LAR-10726-1] c14 N73-20475

HORIZONTAL SPACECRAFT LANDING
Delta winged, manned reentry vehicle capable of horizontal glide landing at low speeds
[NASA-CASE-XLA-00241] c31 N70-37986

HORIZONTAL TAIL SURFACES
Development and characteristics of translating horizontal tail assembly for supersonic aircraft
[NASA-CASE-XLA-08801-1] c02 N71-11043

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Device for improving efficiency of parabolic horn antenna system for linearly polarized signals
[NASA-CASE-XNP-00611] c09 N70-35219
Device for improving efficiency of parabolic reflector horn for linearly or circularly polarized waves
[NASA-CASE-XNP-00540] c09 N70-35382
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[NASA-CASE-GSC-10452] c07 N71-12396
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[NASA-CASE-XNP-01057] c07 N71-15907
Multipurpose microwave antenna, employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c07 N72-25174
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c09 N74-29575
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[NASA-CASE-NPO-13568-1] c33 N75-14964

HOT CATHODES
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HOT PRESSING
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[NASA-CASE-LFW-10219-1] c18 N71-28729

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[NASA-CASE-XMS-05516] c15 N71-17803

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Metallic hot wire anemometer and method for fabricating the same
[NASA-CASE-ARC-10911-1] c35 N75-32426

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[NASA-CASE-NPO-11479] c15 N73-13462
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[NASA-CASE-MSC-12111-1] c02 N71-11039

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[NASA-CASE-XLA-00229] c12 N70-33305

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[NASA-CASE-ARC-10100-1] c05 N71-24738
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[NASA-CASE-XKS-07814] c15 N71-27067
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[NASA-CASE-XMS-03371] c05 N70-42000
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[NASA-CASE-XPR-10856] c05 N71-11189
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[NASA-CASE-XMS-10269] c05 N71-24147
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[NASA-CASE-XMS-01240] c05 N70-35152
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[NASA-CASE-MFS-14671] c05 N71-12341
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[NASA-CASE-XAC-03777] c10 N71-15909
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[NASA-CASE-XAC-02405] c09 N71-16089
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[NASA-CASE-MSC-12243-1] c05 N71-24728
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[NASA-CASE-XNP-09744] c27 N71-16392

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[NASA-CASE-MFS-10412] c12 N71-17578
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[NASA-CASE-XNP-09698] c15 N71-18580
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- [NASA-CASE-XMS-03252] c15 N71-10658
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- [NASA-CASE-XNP-01020] c03 N71-12260
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- [NASA-CASE-XLA-05100] c15 N71-17696
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- [NASA-CASE-XNP-07659] c06 N71-22975
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- [NASA-CASE-KSC-10615] c15 N73-12486
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- [NASA-CASE-MFS-20944] c15 N73-13466
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- [NASA-CASE-LEW-11071-1] c27 N73-27695
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- [NASA-CASE-MFS-22323-1] c15 N74-26988
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- [NASA-CASE-NPO-13360-1] c37 N75-25185
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Solid propellant containing hydrazinium nitroformate oxidizer and polymeric hydrocarbon binder
- [NASA-CASE-NPO-12015] c27 N73-16764
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Catalyst bed ignition system for hydrazine propellants
- [NASA-CASE-XNP-00876] c28 N70-41311
Hydrazine monoperfluoro alkanoate solder flux leaving corrosion resistant coating, for metals such as copper
- [NASA-CASE-XNP-03459-2] c18 N71-15688
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- [NASA-CASE-NPO-11433] c18 N71-31140
Prevention of hydrogen embrittlement of high strength steel --- by additive potassium hydroxide in hydrazine
- [NASA-CASE-NPO-12122-1] c27 N74-20397
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- [NASA-CASE-XLE-00010] c15 N70-33382
HYDROCARBONS
Solid propellant containing hydrazinium nitroformate oxidizer and polymeric hydrocarbon binder
- [NASA-CASE-NPO-12015] c27 N73-16764
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- [NASA-CASE-XLA-00229] c12 N70-33305
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- [NASA-CASE-XLE-05641-1] c15 N71-26346
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- [NASA-CASE-XNP-03873] c06 N65-39733
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- [NASA-CASE-XGS-01419] c03 N70-41864
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- [NASA-CASE-XNP-06531] c14 N71-17575
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- [NASA-CASE-MFS-11537] c14 N71-20442
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- [NASA-CASE-XLE-04526] c03 N71-11052
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- [NASA-CASE-XGS-08729] c28 N71-14044
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- [NASA-CASE-XMS-00583] c28 N70-38504
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- [NASA-CASE-XLA-00158] c26 N70-36805
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- [NASA-CASE-NPO-11682-1] c15 N74-15127
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- [NASA-CASE-NPO-10774] c06 N72-17095
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Method of evaluating moisture barrier properties of materials used in electronics encapsulation
- [NASA-CASE-NPO-10051] c18 N71-24934
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- [NASA-CASE-XLE-06969] c17 N71-24142
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Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant
- [NASA-CASE-XLE-00207] c28 N70-33375
Regenerative cooling system for small rocket engine having restart capability and using noncryogenic hypergolic propellants
- [NASA-CASE-XLE-00685] c28 N70-41992
Method for igniting solid propellant rocket motors by injecting hypergolic fluids

[NASA-CASE-XLE-01988] c27 N71-15634
HYPERSONIC AIRCRAFT

Multistage aerospace craft --- perspective

drawings of conceptual design

[NASA-CASE-XMF-01263] c02 N74-10907

HYPERSONIC FLOW

Design of hypersonic test facility for ablation

tests and performance tests of vehicles under

conditions of high temperature and pressure

[NASA-CASE-XLA-05378] c11 N71-21475

HYPERSONIC SPEED

Leading edge design for hypersonic reentry

vehicles

[NASA-CASE-XLA-00165] c31 N70-33242

Aerospace vehicle with variable planform for

hypersonic and subsonic flight

[NASA-CASE-XLA-00805] c31 N70-38010

Variable geometry manned orbital vehicle having

high aerodynamic efficiency over wide speed

range and incorporating auxiliary pivotal wings

[NASA-CASE-XLA-03691] c31 N71-15674

Supersonic or hypersonic vehicle control system

comprising elevators with hinge line sweep and

free of adverse aerodynamic cross coupling

[NASA-CASE-XLA-08967] c02 N71-27088

Generation of high temperature, high mass flow,

and high Reynolds number air at hypersonic

speeds

[NASA-CASE-LAR-10578-1] c12 N73-25262

Apparatus and method for generating large mass

flow of high temperature air at hypersonic

speeds

[NASA-CASE-LAR-10612-1] c12 N73-28144

Variable dihedral shuttle orbiter --- for flight

at hypersonic and subsonic speeds

[NASA-CASE-LAR-10706-1] c18 N75-16613

HYPERSONIC VEHICLES

Carbon dioxide purge systems to prevent

condensation in spaces between cryogenic fuel

tanks and hypersonic vehicle skin

[NASA-CASE-XLA-01967] c31 N70-42015

HYPERVELOCITY GUNS

Method and apparatus for use in forming highly

collimated beam of microparticles with high

charge to mass ratio and injecting beam into

electrostatic accelerating tube

[NASA-CASE-XGS-06628] c24 N71-16213

Implosion driven, light gas, hypervelocity gun

[NASA-CASE-XAC-05902] c11 N71-18578

Collapsible piston for hypervelocity gun

[NASA-CASE-MSC-13789-1] c11 N73-32152

HYPERVELOCITY IMPACT

Method of and device for determining the

characteristics and flux distribution of

micrometeorites --- scanning puncture holes in

sheet material with photoelectric cell

[NASA-CASE-NPO-12127-1] c14 N74-13130

HYPERVELOCITY PROJECTILES

Impact measuring technique for determining size

of hypervelocity projectiles

[NASA-CASE-LAR-10913] c14 N72-16282

Multiple image storing system for obtaining

holographic record on film of high speed

projectile

[NASA-CASE-MFS-20596] c14 N72-17324

HYPERVELOCITY WIND TUNNELS

Hypersonic test facility for studying ablation

in models under high pressure and high

temperature

[NASA-CASE-XLA-00378] c11 N71-15925

Design of hypersonic test facility for ablation

tests and performance tests of vehicles under

conditions of high temperature and pressure

[NASA-CASE-XLA-05378] c11 N71-21475

HYSTERESIS

Belleville spring assembly with elastic guides

having low hysteresis

[NASA-CASE-XNP-09452] c15 N69-27504

IGNITERS

Characteristics of solid propellant rocket

engine with controlled rate of thrust buildup

operating in vacuum environment

[NASA-CASE-NPO-11559] c28 N73-24784

Remote fire stack igniter --- with

solenoid-controlled valve

[NASA-CASE-MFS-21675-1] c33 N74-33378

IGNITION

Magnetically controlled plasma accelerator

capable of ignition in low density gaseous

environment

[NASA-CASE-XLA-00327] c25 N71-29184

IGNITION LIMITS

High voltage pulse generator for testing flash

and ignition limits of nonmetallic materials

in controlled atmospheres

[NASA-CASE-MSC-12178-1] c09 N71-13518

IGNITION SYSTEMS

Solid propellant ignition with hypergolic fluid

injected to predetermined portions of propellant

[NASA-CASE-XLE-00207] c28 N70-33375

Ignition system for monopropellant combustion

devices

[NASA-CASE-XNP-00249] c28 N70-38249

Igniter capsule for chemical ignition of liquid

rocket propellants

[NASA-CASE-XLE-00323] c28 N70-38505

Catalyst bed ignition system for hydrazine

propellants

[NASA-CASE-XNP-00876] c28 N70-41311

Sustained arc ignition system --- across a spark

gap

[NASA-CASE-LEW-12444-1] c33 N75-25056

IGNITION TEMPERATURE

Test chamber for determining decomposition and

autoignition of materials used in spacecraft

under controlled environmental conditions

[NASA-CASE-KSC-10198] c11 N71-28629

ILLUMINATORS

Camera adapter design for image magnification

including lens and illuminator

[NASA-CASE-XMF-03844-1] c14 N71-26474

Illumination system design for use as sunlight

simulator in space environment simulators with

multiple light sources reflected to single

virtual source

[NASA-CASE-HQN-10781] c23 N71-30292

IMAGE CONTRAST

Video signal enhancement of signal component

representing brightness of scene element in

low contrast

[NASA-CASE-NPO-10343] c07 N71-27341

IMAGE CONVERTERS

Real time liquid crystal image converter

[NASA-CASE-LAR-11206-1] c23 N74-30118

Resistive anode image converter

[NASA-CASE-HQN-10876-1] c35 N75-19621

Deep trap, laser activated image converting system

[NASA-CASE-NPO-13131-1] c36 N75-19652

IMAGE CORRELATORS

Multiple pattern holographic information storage

and readout system

[NASA-CASE-ERC-10151] c16 N71-29131

Automatic focus control for facsimile cameras

[NASA-CASE-LAR-11213-1] c35 N75-15014

IMAGE DISSECTOR TUBES

Apparatus for calibrating an image dissector tube

[NASA-CASE-MFS-22208-1] c33 N75-26244

IMAGE ENHANCEMENT

Electron beam scanning system for improved image

definition and reduced power requirements for

video signal transmission

[NASA-CASE-ERC-10552] c09 N71-12539

Physical correction filter for improving the

optical quality of an image

[NASA-CASE-HQN-10542-1] c74 N75-25706

IMAGE FILTERS

Filter arrangement for controlling light

intensity in motion picture camera used in

optical pyrometry

[NASA-CASE-XLA-00062] c14 N70-33254

Physical correction filter for improving the

optical quality of an image

[NASA-CASE-HQN-10542-1] c74 N75-25706

Method and system for producing chroma signals

[NASA-CASE-MSC-14683-1] c74 N75-33835

IMAGE TUBES

Image tube --- deriving electron beam replica of

image

[NASA-CASE-GSC-11602-1] c09 N74-21850

Method and system for producing chroma signals

[NASA-CASE-MSC-14683-1] c74 N75-33835

IMAGES

Camera adapter design for image magnification

including lens and illuminator

[NASA-CASE-XMF-03844-1] c14 N71-26474

- Stereoscopic television system, including projecting pair of binocular images
[NASA-CASE-ARC-10160-1] c23 N72-27728
- IMAGING TECHNIQUES**
Highly stable optical mirror assembly optimizing image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
Noise elimination in coherent imaging system by axial rotation of optical lens for spectral distribution of degrading affects
[NASA-CASE-GSC-11133-1] c23 N72-11568
Phototransistor imaging system with mosaic of phototransistors on semiconductor substrate
[NASA-CASE-MFS-20809] c23 N73-13660
Computerized optical system for producing multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661
Optical imaging system for increasing light absorption efficiency of imaging detector
[NASA-CASE-ARC-10194-1] c23 N73-20741
Device for displaying and recording angled views of samples to be viewed by microscope
[NASA-CASE-GSC-11690-1] c14 N73-28499
Ritchey-Chretien telescope responsive to images located off telescope optical axis
[NASA-CASE-GSC-11487-1] c14 N73-30393
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c08 N74-12888
Optical instruments
[NASA-CASE-MSC-14096-1] c14 N74-15095
Field sequential stereo television
[NASA-CASE-MSC-12616-1] c07 N74-32601
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c32 N75-26206
- IMIDES**
Synthesis and chemical properties of imidazopyrrolone/imide copolymers
[NASA-CASE-XLA-08802] c06 N71-11238
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c15 N74-13177
- IMINES**
Synthesis of polymeric schiff bases by schiff-base exchange reactions
[NASA-CASE-XMP-06651] c06 N71-11236
Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-XMF-06655] c06 N71-11239
Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-XMP-06652] c06 N71-11243
Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-XMF-03074] c06 N71-24740
- IMMOBILIZATION**
Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-XMF-06589] c05 N71-23159
Absolute focus locking device for microscopes to maintain set focus for extended time period
[NASA-CASE-LAR-10184] c14 N72-22445
- IMPACT**
Shock absorber for use as protective barrier in impact energy absorbing system
[NASA-CASE-NPO-10671] c15 N72-20443
System for detecting impact position of cosmic dust on detector surface
[NASA-CASE-GSC-11291-1] c25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331
- IMPACT ACCELERATION**
Suspended mass oscillation damper based on impact energy absorption for damping wind induced oscillations of tall stacks, antennas, and umbilical towers
[NASA-CASE-LAR-10193-1] c15 N71-27146
- IMPACT DAMAGE**
Measuring micrometeoroid depth of penetration into various materials
[NASA-CASE-XLA-00941] c14 N71-23240
- IMPACT LOADS**
Piezoelectric transducer for detecting and measuring micrometeoroids
[NASA-CASE-XAC-01101] c14 N70-41957
Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225
- IMPACT RESISTANCE**
Electric storage battery with high impact resistance
[NASA-CASE-NPO-11021] c03 N72-20032
- IMPACT STRENGTH**
High impact pressure regulator having minimum number of lightweight movable elements
[NASA-CASE-NPO-10175] c14 N71-18625
- IMPACT TESTING MACHINES**
Development and characteristics of pentrometer for measuring physical properties of lunar surface
[NASA-CASE-XLA-00934] c14 N71-22765
Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225
- IMPACT TOLERANCES**
High impact antennas with high radiating efficiency
[NASA-CASE-NPO-10231] c07 N71-26101
- IMPEDANCE MATCHING**
Impedance transformation device for signal mixing
[NASA-CASE-IGS-01110] c07 N69-24334
Reflectometer for receiver input impedance match measurement
[NASA-CASE-XNP-10843] c07 N71-11267
Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range
[NASA-CASE-IGS-01418] c09 N71-23573
Pattern and impedance matching improvements in transversely polarized triaxial antenna
[NASA-CASE-IGS-02290] c07 N71-28809
- IMPEDANCE MEASUREMENTS**
Development of electrical system for measuring high impedance
[NASA-CASE-XMS-08589-1] c09 N71-20569
- IMPLANTATION**
Biotelemetry apparatus with dual voltage generators for implanting in animals
[NASA-CASE-XAC-05706] c05 N71-12342
- IMPLOSIONS**
Implosion driven, light gas, hypervelocity gun
[NASA-CASE-XAC-05902] c11 N71-18578
- IMPURITIES**
Fabrication of sintered impurity semiconductor brushes for electrical energy transfer
[NASA-CASE-XMP-01016] c26 N71-17818
- INCIDENT RADIATION**
Scattering independent determination of absorption and emission coefficients and radiative equilibrium state
[NASA-CASE-NPO-13677-1] c35 N75-16791
Frequency scanning particle size spectrometer
[NASA-CASE-NPO-13606-1] c35 N75-19627
- INCLINATION**
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c02 N74-34475
- INCOHERENT SCATTERING**
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c09 N74-20859
- INDICATING INSTRUMENTS**
Controlled caging and uncaging mechanism for remote instrument control
[NASA-CASE-GSC-11063-1] c03 N70-35584
Piezoelectric means for missile stage separation indication and stage initiation
[NASA-CASE-XLA-00791] c03 N70-39930
Inductive liquid level detection system
[NASA-CASE-XLE-01609] c14 N71-10500
Apparatus for determining quality of bond between high density material and low density material
[NASA-CASE-MFS-13686] c15 N71-18132
Device for detecting hydrogen fires onboard high altitude rockets
[NASA-CASE-MFS-13130] c10 N72-17173
- INDUCTANCE**
Current dependent variable inductance for input filter chokes of ac or dc power supplies
[NASA-CASE-ERC-10139] c09 N72-17154
Inductance device with vacuum insulation and materials of low gas entrapping capability
[NASA-CASE-LEW-10330-1] c09 N72-27226
- INDUCTION HEATING**
Induction heating of metallurgical specimens to high temperatures in coil furnace

- [NASA-CASE-XLP-04026] c14 N71-23267
- INDUCTION MOTORS**
- Voltage controlled oscillator circuit for two-phase induction motor control [NASA-CASE-MFS-21465-1] c10 N73-32145
- Variable frequency inverter for ac induction motors with torque, speed and braking control [NASA-CASE-MFS-22088-1] c33 N75-15874
- INDUCTORS**
- Inductive liquid level detection system [NASA-CASE-XLE-01609] c14 N71-10500
- Describing apparatus used in vacuum deposition of thin film inductive windings for spacecraft microcircuitry [NASA-CASE-XMF-01667] c15 N71-17647
- Double-induction variable speed system for constant-frequency electrical power generation [NASA-CASE-ERC-10065] c09 N71-27364
- INDUSTRIAL PLANTS**
- Simplified technique and device for producing industrial grade synthetic diamonds [NASA-CASE-MFS-20698-2] c15 N73-19457
- INERTIA**
- Gearing system for eliminating backlash and filtering input torque fluctuations from high inertia load [NASA-CASE-XGS-04227] c15 N71-21744
- INERTIAL GUIDANCE**
- Hermetically sealed vibration damper design for use in gimbal assembly of spacecraft inertial guidance system [NASA-CASE-MSC-10959] c15 N71-26243
- INERTIAL PLATFORMS**
- Inertial component clamping assembly design for spacecraft guidance and control system mounting [NASA-CASE-XMS-02184] c15 N71-20813
- Inertial gimbal alignment system for spacecraft guidance [NASA-CASE-XMF-01669] c21 N71-23289
- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position [NASA-CASE-NPO-13044-1] c14 N74-15094
- An attitude control system [NASA-CASE-MFS-22787-1] c21 N74-35096
- INERTIAL REFERENCE SYSTEMS**
- Development of attitude control system for spacecraft orientation [NASA-CASE-XGS-04393] c21 N71-14159
- Large amplitude, linear inertial reference system of vibrating string type for spacecraft reference plane [NASA-CASE-XAC-03107] c23 N71-16098
- INFLATABLE SPACECRAFT**
- Passive thermal control coating on aluminum foil laminate for inflatable spacecraft surfaces [NASA-CASE-XLA-01291] c33 N70-36617
- Erectable, inflatable, radio signal reflecting passive communication satellite [NASA-CASE-XLA-00210] c30 N70-40309
- Rotating, multisided mandrel for fabricating gored inflatable spacecraft [NASA-CASE-XLA-04143] c15 N71-17687
- Forming inflatable panels erectable in space for passive communication satellite [NASA-CASE-XLA-03497] c15 N71-23052
- Development and characteristics of inflatable structure to provide escape from orbit for spacecrews under emergency conditions [NASA-CASE-XMS-06162] c31 N71-28851
- INFLATABLE STRUCTURES**
- Aeroflexible wing structure with air scoop for inflating stiffeners with ram air [NASA-CASE-XLA-06095] c01 N69-39981
- Design of inflatable life raft for aircrafts and boats [NASA-CASE-XMS-00863] c05 N70-34857
- Lightweight life preserver without fastening devices [NASA-CASE-XMS-00864] c05 N70-36493
- Inflatable honeycomb panel element for lightweight structures usable in space stations and other construction [NASA-CASE-XLA-00204] c32 N70-36536
- Inflatable radar reflector unit - lightweight, highly reflective to electromagnetic radiation, and adaptable for erection and deployment with minimum effort and time [NASA-CASE-XMS-00893] c07 N70-40063
- Temperature sensor warning system for pneumatic tires of aircraft and ground vehicles [NASA-CASE-XLA-01926] c14 N71-15620
- Inflation system for balloon type satellites [NASA-CASE-XGS-03351] c31 N71-16081
- Development and characteristics of protective coatings for spacecraft [NASA-CASE-XNP-02507] c31 N71-17679
- Development and characteristics of self supporting space vehicle [NASA-CASE-XLA-00117] c31 N71-17680
- Conforming polisher for aspheric surfaces of revolution with inflatable tube [NASA-CASE-XGS-02884] c15 N71-22705
- Technique for making foldable, inflatable, plastic honeycomb core panels for use in building and bridge structures, light and radio wave reflectors, and spacecraft [NASA-CASE-XLA-03492] c15 N71-22713
- Collapsible antenna boom and coaxial transmission line having inflatable inner tube [NASA-CASE-MFS-20068] c07 N71-27151
- Space expandable tether device for use as passageway between two docked spacecraft [NASA-CASE-XMS-10993] c15 N71-28936
- Inflatable rocket engine nozzle skirt with transpiration cooling [NASA-CASE-MFS-20619] c28 N72-11708
- Modification of one man life raft [NASA-CASE-LAR-10241-1] c05 N74-14845
- INFORMATION RETRIEVAL**
- Multiple pattern holographic information storage and readout system [NASA-CASE-ERC-10151] c16 N71-29131
- INFRARED DETECTORS**
- Temperature sensitive capacitor device for detecting very low intensity infrared radiation [NASA-CASE-XNP-09750] c14 N69-35937
- Sight switch using infrared source and sensor mounted beside eye [NASA-CASE-XMF-03934] c09 N71-22985
- Characteristics of infrared photodetectors manufactured from semiconductor material irradiated by electron beam [NASA-CASE-LAR-10728-1] c14 N73-12445
- Doped Josephson tunneling junction for use in a sensitive IR detector [NASA-CASE-NPO-13348-1] c33 N75-31332
- INFRARED INSTRUMENTS**
- Infrared scanning system for maintaining spacecraft orientation with earth reference [NASA-CASE-XLA-00120] c21 N70-33181
- INFRARED LASERS**
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver [NASA-CASE-NPO-11919-1] c14 N74-11284
- INFRARED RADIATION**
- High speed infrared furnace [NASA-CASE-XLE-10466] c17 N69-25147
- High field CdS detector for infrared radiation [NASA-CASE-LAR-11027-1] c14 N74-18088
- INFRARED SCANNERS**
- Infrared scanning system for maintaining spacecraft orientation with earth reference [NASA-CASE-XLA-00120] c21 N70-33181
- Method and equipment for locating earth infrared horizon from space, independent of season and latitude [NASA-CASE-LAR-10726-1] c14 N73-20475
- INFRARED SPECTRA**
- Diatomic infrared gasdynamic laser --- for producing different wavelengths [NASA-CASE-ARC-10370-1] c36 N75-31426
- INFRARED SPECTROMETERS**
- Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities [NASA-CASE-XLA-03273] c14 N71-18699
- INFRARED SPECTROSCOPY**
- Polymer coatings for moisture protection of optical windows in infrared spectroscopy [NASA-CASE-ARC-10749-1] c23 N73-32542
- INFRASONIC FREQUENCIES**
- Resonant infrasonic gauging device for measuring liquid quantity in closed bladderless reservoir [NASA-CASE-MSC-11847-1] c14 N72-11363
- INGESTION (BIOLOGY)**
- Ingestible miniaturized telemetry device for

SUBJECT INDEX

INSTRUMENTS

- deep body temperature measurements on humans and animals
[NASA-CASE-ARC-10583-1] c05 N73-14093
- INITIATORS (EXPLOSIVES)**
Piezoelectric means for missile stage separation indication and stage initiation
[NASA-CASE-XLA-00791] c03 N70-39930
Electroexplosive safe-arm initiator using electric driven electromagnetic coils and magnets to align charge
[NASA-CASE-LAR-10372] c09 N71-18599
- INJECTION**
Foam insulation thickness measuring and injection device for spacecraft applications
[NASA-CASE-MFS-20261] c14 N71-27005
- INJECTORS**
Propellant injectors for rocket combustion chambers
[NASA-CASE-XLE-00103] c28 N70-33241
Fuel injection system for maximum combustion efficiency of rocket engines
[NASA-CASE-XLE-00111] c28 N70-38199
Injector manifold assembly for bipropellant rocket engines providing for fuel propellant to serve as coolant
[NASA-CASE-XNP-00148] c28 N70-38710
Method and apparatus for use in forming highly collimated beam of microparticles with high charge to mass ratio and injecting beam into electrostatic accelerating tube
[NASA-CASE-XGS-06628] c24 N71-16213
Control valve and coaxial variable injector for controlling bipropellant mixture ratio and flow
[NASA-CASE-XNP-09702] c15 N71-17654
Rocket engine injector orifice to accommodate changes in density, velocity, and pressure, thereby maintaining constant mass flow rate of propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736
Bipropellant injector with pair of concave deflector plates
[NASA-CASE-XNP-09461] c28 N72-23809
Coaxial injector for mixing liquid propellants within combustion chambers
[NASA-CASE-NPO-11095] c15 N72-25455
Improved injector with porous plug for bubbles of gas into feed lines of electrically conductive liquid
[NASA-CASE-NPO-11377] c15 N73-27406
- INLET FLOW**
High pressure four-way valve with O ring adapted to pass across inlet port
[NASA-CASE-XNP-00214] c15 N70-36908
Method for maintaining good performance in gas turbine during air flow distortion
[NASA-CASE-LEW-00286-1] c28 N71-28915
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c02 N74-20646
Shock position sensor for supersonic inlets --- development of system to measure pressure in throat of supersonic inlet and operate bypass valve
[NASA-CASE-LEW-11915-1] c12 N74-25805
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c28 N74-31270
- INLET PRESSURE**
Fluid jet amplifier with fluid from jet nozzle deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
Shock position sensor for supersonic inlets --- development of system to measure pressure in throat of supersonic inlet and operate bypass valve
[NASA-CASE-LEW-11915-1] c12 N74-25805
- INOCULATION**
Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c51 N75-13502
- INORGANIC COATINGS**
Composition of diffuse reflective coating containing sodium chloride in combination with diol solvent and organic wetting and drying agents
[NASA-CASE-GSC-11214-1] c06 N73-13128
- INORGANIC COMPOUNDS**
Inorganic ion exchange membrane electrolytes for fuel cell use
[NASA-CASE-XNP-04264] c03 N69-21337
Preparation of inorganic solid film lubricants with long wear life and stability in aerospace environments
[NASA-CASE-XNP-03988] c15 N71-21403
Modification of polyurethanes with alkyl halide resins, inorganic salts, and encapsulated volatile and reactive halogen for fuel fire control
[NASA-CASE-ABC-10098-1] c06 N71-24739
Inorganic thermal control and solar reflector coatings
[NASA-CASE-MFS-20011] c18 N72-22566
- INPUT**
Apparatus for filtering input signals
[NASA-CASE-NPO-10198] c09 N71-24806
RC networks with voltage amplifier, RC input circuit, and positive feedback
[NASA-CASE-ABC-10020] c10 N72-17172
- INSERTION LOSS**
High impedance alternating current sensing transformer device between two bolometers for measuring insertion loss of test component
[NASA-CASE-XNP-01193] c10 N71-16057
- INSTALLING**
A device for installing rocket engines
[NASA-CASE-MFS-19220-1] c14 N75-22356
- INSTRUMENT ERRORS**
Solar radiation direction detector and device for compensating degradation of photocells
[NASA-CASE-XLA-00183] c14 N70-40239
- INSTRUMENT FLIGHT RULES**
Controlled visibility device for simulating poor visibility conditions in training pilots in instrument landing and flight procedures
[NASA-CASE-XPR-04147] c11 N71-10748
- INSTRUMENT ORIENTATION**
Sensor consisting of photocells mounted on pyramidal base for improved pointing accuracy of planetary trackers
[NASA-CASE-XNP-04180] c07 N69-39736
Inertial gimbal alignment system for spacecraft guidance
[NASA-CASE-XNP-01669] c21 N71-23289
Optical gauging system for monitoring machine tool alignment
[NASA-CASE-XAC-09489-1] c15 N71-26673
Development of solar energy powered heliotrope assembly to orient solar array toward sun
[NASA-CASE-GSC-10945-1] c21 N72-31637
- INSTRUMENT PACKAGES**
Apparatus for ejecting covers of instrument packages using differential pressure principle
[NASA-CASE-XNP-04132] c15 N69-27502
Removable potting compound for instrument shock protection
[NASA-CASE-XLA-00482] c15 N70-36409
Plastic foam generator for space vehicle instrument payload package flotation in water landing
[NASA-CASE-XLA-00838] c03 N70-36778
High velocity guidance and spin stabilization gyro controlled jet reaction system for launch vehicle payloads
[NASA-CASE-XLA-01339] c31 N71-15692
Ethylene oxide sterilization and encapsulating process for sterile preservation of instruments and solid propellants
[NASA-CASE-XNP-09763] c14 N71-20461
- INSTRUMENTS**
Method and apparatus for bowing of instrument panels to improve radio frequency shielded enclosure
[NASA-CASE-XNP-09422] c07 N71-19436
Design and development of pressure sensor for measuring differential pressures of few pounds per square inch
[NASA-CASE-XNP-01974] c14 N71-22752
Development of temperature compensated thrust measuring gage for measuring forces as function of time in environment with varying temperature
[NASA-CASE-XGS-02319] c14 N71-22965
Development and characteristics of self-calibrating displacement transducer for measuring magnitude and frequency of displacement of bodies
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Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c09 N75-32134

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Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c14 N74-18090
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c33 N75-15874

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Silicon controlled rectifier inverter with compensation of transients to avoid false gating
[NASA-CASE-XLA-08507] c09 N69-39984
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c09 N72-25254

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Method of producing output voltage from photovoltaic cell using poly-N-vinyl carbazole complexed with iodine
[NASA-CASE-NPO-10373] c03 N71-18698
Gallium arsenide solar cell preparation by surface deposition of cuprous iodide on thin n-type polycrystalline layers and heating in iodine vapor
[NASA-CASE-XNP-01960] c09 N71-23027
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[NASA-CASE-MSC-14632-1] c54 N75-25594

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[NASA-CASE-LEW-10518-1] c24 N72-33681
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[NASA-CASE-LEW-11390-2] c24 N73-20763
Heat pipe production of high purity radioiodine for thyroid measurements
[NASA-CASE-LEW-11390-3] c11 N73-28128
Apparatus for producing high purity I-123 --- for thyroid measurement
[NASA-CASE-LEW-10518-3] c15 N74-10476

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[NASA-CASE-LEW-10278-1] c15 N71-28582

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Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c11 N74-26767
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Method of constructing dished ion thruster grids to provide hole arrays spacing compensation
[NASA-CASE-LEW-11876-1] c20 N75-16624
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[NASA-CASE-LEW-12082-1] c20 N75-32166

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Quadrupole mass spectrometer using noise spectrum for ion separation and identification
[NASA-CASE-XNP-04231] c14 N73-32325

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Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c18 N74-13270

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System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-XNP-02592] c24 N71-20518

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Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c14 N74-32890

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Improved cathode containing barium carbonate block and heated tungsten screen for electron bombardment ion thruster
[NASA-CASE-XLE-07087] c06 N69-39889
High-vacuum condenser tank for testing ion rocket engines
[NASA-CASE-XLE-00168] c11 N70-33278

Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
Electrostatic ion engines using high velocity electrons to ionize propellant
[NASA-CASE-XLE-00376] c28 N70-37245
Metal ion rocket engine design
[NASA-CASE-XLE-00342] c28 N70-37980
Dynamometer measuring microforce thrust produced by ion engine
[NASA-CASE-XLE-00702] c14 N70-40203
Increasing available power per unit area in ion rocket engine by increasing beam density
[NASA-CASE-XLE-00519] c28 N70-41576
Accel and focus electrode design for ion engine with improved efficiency
[NASA-CASE-XNP-02839] c28 N70-41922
Ion engine with magnetic circuit for optimal discharge
[NASA-CASE-XLE-01124] c28 N71-14043
Electron bombardment ion rocket engine with improved propellant introduction system
[NASA-CASE-XLE-02066] c28 N71-15661
System for monitoring presence of neutrals in streams of ions - ion engine control
[NASA-CASE-XNP-02592] c24 N71-20518
Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-XNP-02923] c28 N71-23081
Electronic cathodes for use in electron bombardment ion thrusters
[NASA-CASE-XLE-04501] c09 N71-23190
Permanently magnetized ion engine casing construction for use in spacecraft propulsion systems
[NASA-CASE-XNP-06942] c28 N71-23293
Development and characteristics of ion thruster accelerator with single glass coated grid to provide increased ion extraction capability and larger diameter accelerator system
[NASA-CASE-LEW-10106-1] c28 N71-26642
Internal labyrinth and shield structure to improve electrical isolation of propellant feed source from ion thruster
[NASA-CASE-LEW-10210-1] c28 N71-26781
Low mass ionizing device for use in electric thrust spacecraft engines
[NASA-CASE-XNP-01954] c28 N71-28850
Development of system for delivering vaporized mercury to electron bombardment ion engine
[NASA-CASE-NPO-10737] c28 N72-11709
Characteristics of ion rocket engine with combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c28 N73-24783
Single grid accelerator system for electron bombardment type ion thruster
[NASA-CASE-XLE-10453-2] c28 N73-27699
Method of constructing dished ion thruster grids to provide hole arrays spacing compensation
[NASA-CASE-LEW-11876-1] c20 N75-16624
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c20 N75-18310
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c20 N75-32166

ION EXCHANGE MEMBRANE ELECTROLYTES
Inorganic ion exchange membrane electrolytes for fuel cell use
[NASA-CASE-XNP-04264] c03 N69-21337
Development and characteristics of ion-exchange membrane and electrode assembly for fuel cells or electrolysis cells
[NASA-CASE-XMS-02063] c03 N71-29044

ION EXCHANGING
Fuel system for thermal nuclear reactor which uses inorganic ion exchanger
[NASA-CASE-LEW-11645-2] c22 N73-28660

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Ion microprobe mass spectrometer with cooled electrode target for analyzing traces of fluids
[NASA-CASE-ERC-10014] c14 N71-28863

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Variable thrust ion engine using thermal decomposition of solid cesium compound to produce propulsive vapor
[NASA-CASE-XNP-00923] c28 N70-36802
Electrostatic ion engines using high velocity electrons to ionize propellant

[NASA-CASE-XLE-00376] c28 N70-37245
Metal ion rocket engine design
[NASA-CASE-XLE-00342] c28 N70-37980
Method for producing porous tungsten plates for
ionizing cesium compounds for propulsion of
ion engines
[NASA-CASE-XLE-00455] c28 N70-38197
Accel and focus electrode design for ion engine
with improved efficiency
[NASA-CASE-XNP-02839] c28 N70-41922
Electric rocket engine with electron bombardment
ionization chamber
[NASA-CASE-XNP-04124] c28 N71-21822
Ion beam deflector system for electronic thrust
vector control for ion propulsion yaw, pitch,
and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
Development and characteristics of ion thruster
accelerator with single glass coated grid to
provide increased ion extraction capability
and larger diameter accelerator system
[NASA-CASE-LEW-10106-1] c28 N71-26642
Development of system for delivering vaporized
mercury to electron bombardment ion engine
[NASA-CASE-NPO-10737] c28 N72-11709
Radial magnetic field for ion thruster
[NASA-CASE-LEW-1C770-1] c28 N72-22770
Automatic shunting of ion thruster magnetic
field when thruster is not operating
[NASA-CASE-LEW-10835-1] c28 N72-22771
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c15 N74-22147
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c20 N75-18310

ION SOURCES
Apertured electrode focusing system for ion
sources with nonuniform plasma density
[NASA-CASE-XNP-03332] c09 N71-10618
Multilayer porous refractory metal ionizer
design with thick, porous, large-grain
substrates and thin, porous micron-grain
substrates
[NASA-CASE-XNP-04338] c17 N71-23046
Development and characteristics of ion thruster
accelerator with single glass coated grid to
provide increased ion extraction capability
and larger diameter accelerator system
[NASA-CASE-LEW-10106-1] c28 N71-26642
Low mass ionizing device for use in electric
thrust spacecraft engines
[NASA-CASE-XNP-01954] c28 N71-28850
Development and characteristics of apparatus for
ionization analysis
[NASA-CASE-ARC-10017-1] c14 N72-29464
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c28 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c37 N75-19684

IONIZATION CHAMBERS
Automatic baseline stabilization for ionization
detector used in gas chromatograph
[NASA-CASE-XNP-03128] c10 N70-41991
Electric rocket engine with electron bombardment
ionization chamber
[NASA-CASE-XNP-04124] c28 N71-21822
Multichannel photoionization chamber for
measuring absorption, photoionization yield,
and coefficients of gases
[NASA-CASE-ERC-10044-1] c14 N71-27090
Development and characteristics of apparatus for
ionization analysis
[NASA-CASE-ARC-10017-1] c14 N72-29464

IONIZATION GAGES
Ionization vacuum gage
[NASA-CASE-XNP-00646] c14 N70-35666
Ionization control system design for monitoring
separately located ion gage pressures on
vacuum chambers
[NASA-CASE-XLE-00787] c14 N71-21090
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[NASA-CASE-ARC-10017-1] c14 N72-29464
Ionization gage for measuring ultrahigh vacuum
levels
[NASA-CASE-XLA-05087] c14 N73-30391

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Electrodes having array of small surfaces for
field ionization
[NASA-CASE-ERC-10013] c09 N71-26678

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Plasma probes having guard ring and primary
sensor at same potential to prevent stray wall
current collection in ionized gases
[NASA-CASE-XLE-00690] c25 N69-39884
Transient heat transfer gage for measuring total
radiant intensity from far ultraviolet and
ionized high temperature gases
[NASA-CASE-XNP-09802] c33 N71-15641

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Description of electrical equipment and system
for purification of waste water by producing
silver ions for bacterial control
[NASA-CASE-HSC-10960-1] c03 N71-24718
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c20 N75-18310

IONIZING RADIATION

High voltage cable for use in high intensity
ionizing radiation fields
[NASA-CASE-XNP-00738] c09 N70-38201
Reinforced polyquinoxaline gasket and method of
preparing the same --- resistant to ionizing
radiation and liquid hydrogen temperatures
[NASA-CASE-HFS-21364-1] c15 N74-18126

IONOSPHERE

Lightweight, rugged, inexpensive satellite
battery for producing electrical power from
ionosphere using electrodes with different
contact potentials
[NASA-CASE-XGS-01593] c03 N70-35408

IONS

Micrometeoroid analyzer using arrays of
interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477

IRISES (MECHANICAL APERTURES)

Waveguide, thin film window and microwave irises
[NASA-CASE-LAR-10513-1] c07 N72-25170
Development of thin film microwave iris
installed in microwave waveguide transverse to
flow of energy in waveguide
[NASA-CASE-LAR-10511-1] c09 N72-29172

IRON OXIDES

System for recovering oxygen and/or water from
extraterrestrial soil and iron oxide materials
[NASA-CASE-HSC-12332-1] c15 N72-15476

IRRADIATION

Solar sensor with coarse and fine sensing
elements for matching preirradiated cells on
degradation rates
[NASA-CASE-XLA-01584] c14 N71-23269
Apparatus for obtaining isotropic irradiation on
film emulsion from parallel radiation source
[NASA-CASE-HFS-20095] c24 N72-11595
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[NASA-CASE-LEW-10906-1] c06 N74-30502

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Solar powered pump
[NASA-CASE-NPO-13567-1] c37 N75-22746

ISOCYANATES

Fire retardant polyisocyanurate foam with high
temperature resistance
[NASA-CASE-ARC-10280-1] c18 N70-34695

ISOLATORS

Internal labyrinth and shield structure to
improve electrical isolation of propellant
feed source from ion thruster
[NASA-CASE-LEW-10210-1] c28 N71-26781

ISOPROPYL ALCOHOL

Preparation of fluorinated polyethers from
2-hydro-perhaloisopropyl alcohols
[NASA-CASE-HFS-11492] c06 N73-30102

ISOTHERMAL LAYERS

Double-wall isothermal cylinder containing heat
transfer fluid thermal reservoir as spacecraft
insulation cover
[NASA-CASE-HFS-20355] c33 N71-25353

J**JET AIRCRAFT**

Deflector for preventing objects from entering
nacelle inlets of jet aircraft
[NASA-CASE-XLE-00388] c28 N70-34788

JET AIRCRAFT NOISE

Upper surface, external flow, jet-augmented flap
configuration for high wing jet aircraft for
noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332

- Jet aircraft exhaust nozzle for noise reduction
[NASA-CASE-LAR-10951-1] c28 N73-19819
- Development of aircraft configuration for reduction of jet aircraft noise by exhausting engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
- Method and apparatus for improving operating efficiency and reducing low speed noise for turbine aircraft engines
[NASA-CASE-LAR-11310-1] c28 N73-31699
- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c02 N74-32418
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c28 N74-33218
- Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c35 N75-19614
- JET AMPLIFIERS**
Fluid jet amplifier with fluid from jet nozzle deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
- Fluid control jet amplifiers
[NASA-CASE-XLE-09341] c12 N71-28741
- JET BLAST EFFECTS**
Separation mechanism for use between stages of multistage rocket vehicles
[NASA-CASE-XLA-00188] c15 N71-22874
- JET CONTROL**
Attitude control device for space vehicles
[NASA-CASE-XNP-00294] c21 N70-36938
- JET ENGINES**
Absorptive, nonreflecting barrier mounted between closely spaced jet engines on supersonic aircraft, for preventing shock wave interference
[NASA-CASE-XLA-02865] c28 N71-15563
- Development of thrust dynamometer for measuring performance of jet and rocket engines
[NASA-CASE-XLE-05260] c14 N71-20429
- Afterburner-equipped jet engine nacelle with slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493
- Process for welding compressor and turbine blades to rotors and discs of jet engines
[NASA-CASE-LEW-10533-1] c15 N73-28515
- Variably positioned guide vanes for aerodynamic checking
[NASA-CASE-LAR-10642-1] c28 N74-31270
- Jet engine air intake system
[NASA-CASE-ARC-10761-1] c07 N75-31108
- JET EXHAUST**
Development of aircraft configuration for reduction of jet aircraft noise by exhausting engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
- Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c02 N74-27490
- JET FLAPS**
Upper surface, external flow, jet-augmented flap configuration for high wing jet aircraft for noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332
- JET FLOW**
Two-phase flow system with discrete, impinging two-phase jets
[NASA-CASE-NPO-11556] c12 N72-25292
- JET MIXING FLOW**
Fuel injection system for maximum combustion efficiency of rocket engines
[NASA-CASE-XLE-00111] c28 N70-38199
- JET NOZZLES**
Fluid jet amplifier with fluid from jet nozzle deflected by inlet pressure
[NASA-CASE-XLE-03512] c12 N69-21466
- Thrust and attitude control apparatus using jet nozzle in movable canard surface or fin configuration
[NASA-CASE-XLE-03583] c31 N71-17629
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c14 N74-15093
- Cascade plug nozzle
[NASA-CASE-LAR-11674-1] c28 N74-33220
- JET THRUST**
System for aerodynamic control of rocket vehicles by secondary injection of fluid into nozzle exhaust stream
[NASA-CASE-XLA-01163] c21 N71-15582
- Drive mechanism for operating reactance attitude control system for aerospace bodies
[NASA-CASE-XNP-01598] c21 N71-15583
- JETTISON SYSTEMS**
Describing assembly for opening stabilizing and decelerating flaps of flight capsules used in space research
[NASA-CASE-XNP-03169] c31 N71-15675
- System for deploying and ejecting releasable clamshell fairing sections from spinning sounding rockets
[NASA-CASE-GSC-10590-1] c31 N73-14853
- JIGS**
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c15 N74-32926
- JOINING**
Transparent plastic film for attaching cover glasses to silicon solar cells
[NASA-CASE-LEW-11065-1] c03 N72-11064
- JOINTS (ANATOMY)**
Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 N71-11194
- Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195
- Cord restraint system for pressure suit joints
[NASA-CASE-XMS-09635] c05 N71-24623
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c54 N75-12616
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c54 N75-32767
- JOINTS (JUNCTIONS)**
Hollow spherical electrode for shielding dielectric junction between high voltage conductor and insulator
[NASA-CASE-XLE-03778] c09 N69-21542
- Elastic universal joint for rocket motor mounting
[NASA-CASE-XNP-00416] c15 N70-36947
- Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-XNP-01452] c15 N70-41371
- Design and development of flexible joint for pressure suits
[NASA-CASE-XMS-09636] c05 N71-12344
- Elbow forming in jacketed pipes while maintaining separation between core shape and jacket pipes
[NASA-CASE-XNP-10475] c15 N71-24679
- Method and apparatus for precision sizing and joining of large diameter tubes by bulging or constricting overlapping ends
[NASA-CASE-XNP-05114-2] c15 N71-26148
- Universal joints for connecting two displaced shafts or members
[NASA-CASE-NPO-10646] c15 N71-28467
- Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01855] c15 N71-28937
- Mechanism for restraining universal joints to prevent separation while allowing bending, angulation, and lateral offset in any position about axis
[NASA-CASE-XNP-02278] c15 N71-28951
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c15 N74-18128
- Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c15 N74-23064
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c05 N74-32546
- An externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c15 N74-34882
- Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c37 N75-12326
- Latching device
[NASA-CASE-MFS-21606-1] c37 N75-19685
- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c37 N75-26372
- JOSEPHSON JUNCTIONS**
Doped Josephson tunneling junction for use in a sensitive IR detector

[NASA-CASE-NPO-12348-1] c33 N75-31332
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 with Joule-Thomson valve assembly
 [NASA-CASE-NPO-10309] c15 N69-23190
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 Slit regulated gas journal bearing
 [NASA-CASE-INP-00476] c15 N70-38620
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 designed to ride on shaft
 [NASA-CASE-MFS-20423] c15 N72-11388
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 [NASA-CASE-LEW-11076-4] c15 N74-18134
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 [NASA-CASE-LEW-11076-1] c15 N74-21061
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 [NASA-CASE-LEW-11076-2] c15 N74-32921
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 [NASA-CASE-LEW-11076-3] c37 N75-30562
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 diode for integration into photo sensor arrays
 [NASA-CASE-MFS-20407] c09 N73-19235
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 [NASA-CASE-ARC-10364-2] c33 N75-25041
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 Apparatus for ballasting high frequency
 transistors
 [NASA-CASE-XGS-05003] c09 N69-24318
 Miniature piezoelectric semiconductor transducer
 with in situ stress coupling
 [NASA-CASE-ERC-10087-2] c14 N72-31446
 Method of determining bond quality of power
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 inspection of junction microstructure
 [NASA-CASE-MFS-21931-1] c37 N75-26372

K

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 Non-reusable kinetic energy absorber for
 application in soft landing of space vehicles
 [NASA-CASE-XLE-00810] c15 N70-34861
KINETIC FRICTION
 Kinetic and static friction force measurement
 between magnetic tape and magnetic head surfaces
 [NASA-CASE-XNP-08680] c14 N71-22995
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 Micrometeoroid analyzer using arrays of
 interconnected capacitors and ion detector
 [NASA-CASE-ARC-10443-1] c14 N73-20477

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 Design of mechanical device for stirring several
 test tubes simultaneously
 [NASA-CASE-XAC-06956] c15 N71-21177
 Gas purged dry box glove reducing permeation of
 air or moisture into dry box or isolator by
 diffusion through glove
 [NASA-CASE-XLE-02531] c05 N71-23080
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 dispensing reagent quantities of volatile
 chemicals for small batch reactions
 [NASA-CASE-NPO-10070] c15 N71-27372
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 positioning test tubes to permit optimum
 drying of culture medium
 [NASA-CASE-LAR-10507-1] c11 N72-25284
 Development of method for controlling vapor
 content of gas
 [NASA-CASE-NPO-10633] c03 N72-28025
 Apparatus for mixing two or more liquids under
 zero gravity conditions
 [NASA-CASE-LAR-10195-1] c15 N73-19458
 Automatic real-time pair-feeding system for
 animals
 [NASA-CASE-ARC-10302-1] c04 N74-15778
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 Laminar flow of liquid coolants in rocket engines
 [NASA-CASE-NPO-10122] c12 N71-17631
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 design with thick, porous, large-grain
 substrates and thin, porous micron-grain
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 [NASA-CASE-XNP-04338] c17 N71-23046

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 impregnated laminates with fiberglass cloth
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 [NASA-CASE-MFS-20408] c18 N73-12604
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 spacecraft to serve as anti-meteoroid device
 [NASA-CASE-LAR-10788-1] c31 N73-20880
 Transparent fire resistant polymeric structures
 [NASA-CASE-ARC-10813-1] c18 N74-16249
 Reinforced polyquinoxaline gasket and method of
 preparing the same --- resistant to ionizing
 radiation and liquid hydrogen temperatures
 [NASA-CASE-MFS-21364-1] c15 N74-18126
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 [NASA-CASE-XLA-11028-1] c18 N74-27035
 Lightweight electrically powered flexible
 thermal laminate --- made of metal fibers
 [NASA-CASE-MSC-12662-1] c24 N75-16635
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 landing approach of flight vehicle
 [NASA-CASE-XMS-01994-1] c14 N72-17326
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 [NASA-CASE-ARC-10179-1] c21 N72-22619
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 Pivotal shock absorbing assembly for use as load
 distributing portion in landing gear systems
 of space vehicles
 [NASA-CASE-XMF-03856] c31 N70-34159
 Nose gear steering system for vehicles with main
 skids to provide directional stability after
 loss of aerodynamic control
 [NASA-CASE-XLA-01804] c02 N70-34160
 Landing pad assembly for aerospace vehicles
 [NASA-CASE-XMF-02853] c31 N70-36654
 Aircraft wheel spray drag alleviator for dual
 tandem landing gear
 [NASA-CASE-XLA-01583] c02 N70-36825
 Spacecraft shock absorbing system for soft
 landings
 [NASA-CASE-XMF-02108] c31 N70-36845
 Shock absorber for landing gear of lunar or
 planetary landing modules
 [NASA-CASE-XMF-01045] c15 N70-40354
 Vertically descending flight vehicle landing
 gear for rough terrain
 [NASA-CASE-XMF-01174] c02 N70-41589
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 Shock absorber for landing gear of lunar or
 planetary landing modules
 [NASA-CASE-XMF-01045] c15 N70-40354
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 vehicular response to landing
 [NASA-CASE-XLA-00493] c11 N70-34786
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 [NASA-CASE-XLE-2529-2] c36 N75-27364
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 [NASA-CASE-ARC-10637-1] c35 N75-16783
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 [NASA-CASE-NPO-13308-1] c36 N75-30524
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 [NASA-CASE-LAR-11341-1] c36 N75-19655
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[NASA-CASE-ERC-10283] c16 N72-25485
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[NASA-CASE-ERC-10187] c16 N69-31343
Describing laser Doppler velocimeter for measuring mean velocity and turbulence of fluid flow
[NASA-CASE-MFS-20386] c21 N71-19212
Development of apparatus for amplitude modulation of diode laser by periodic discharge of direct current power supply
[NASA-CASE-XMS-04269] c16 N71-22895
Doppler shifted laser beam as fluid velocity sensor
[NASA-CASE-XAC-10770-1] c16 N71-24828
Calibrator for measuring and modulating or demodulating laser outputs
[NASA-CASE-XLA-03410] c16 N71-25914
Method and apparatus for optically modulating light or microwave beam
[NASA-CASE-GSC-10216-1] c23 N71-26722
Laser machining device with dielectric functioning as beam waveguide for mechanical and medical applications
[NASA-CASE-HQN-10541-2] c15 N71-27135
Optical communication system with gas filled waveguide for laser beam transmission
[NASA-CASE-HQN-10541-4] c16 N71-27183
Design and development of multichannel laser remote control system using modulated helium-neon laser as transmitter and light collector as receiving antenna
[NASA-CASE-LAR-10311-1] c16 N73-16536
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[NASA-CASE-GSC-11222-1] c16 N73-32391
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[NASA-CASE-NPO-11317-2] c16 N74-13205
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[NASA-CASE-NPO-11861-1] c14 N74-20009
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[NASA-CASE-NPO-11743-1] c33 N74-27425
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c36 N75-15028
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c36 N75-19654
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c36 N75-19655
Optical noise suppression device and method --- for optical data processing computer having laser light source
[NASA-CASE-MSC-12640-1] c74 N75-28871
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[NASA-CASE-NPO-13175-1] c36 N75-31427

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Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125

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Laser device for removing material from rotating object for dynamic balancing
[NASA-CASE-MFS-11279] c16 N71-20400
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[NASA-CASE-XLA-04295] c16 N71-24170
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[NASA-CASE-HQN-10541-1] c07 N71-26291
Design and characteristics of laser camera system with diffusion filter of small particles with average diameter larger than wavelength of laser light
[NASA-CASE-NPO-10417] c16 N71-33410
Optical sensing of supersonic flows by correlating deflections in laser beams through flow
[NASA-CASE-MFS-20642] c14 N72-21407

Laser technique for breaking ice in ship path
[NASA-CASE-LAR-10815-1] c16 N72-22520
Design of precision vertical alignment system using laser with gravitationally sensitive cavity
[NASA-CASE-ABC-10444-1] c16 N73-33397
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[NASA-CASE-HQN-10790-1] c16 N74-11313
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c16 N74-15145
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[NASA-CASE-MFS-22409-1] c16 N74-18153
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[NASA-CASE-GSC-11262-1] c16 N74-21091
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[NASA-CASE-NPO-13448-1] c16 N74-34012
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[NASA-CASE-NPO-13531-1] c36 N75-13243
Method and apparatus for generating coherent radiation in the ultraviolet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c70 N75-16307
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[NASA-CASE-NPO-13131-1] c36 N75-19652
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c36 N75-19653
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c36 N75-31427

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Bolt-latch mechanism for releasing despin weights from space vehicle
[NASA-CASE-XLA-00679] c15 N70-38601
Transparent polycarbonate resin, shell helmet and latch design for high altitude and space flight
[NASA-CASE-XMS-04935] c05 N71-11190
Quick disconnect latch and handle combination for mounting articles on walls or supporting bases in spacecraft under zero gravity conditions
[NASA-CASE-MFS-11132] c15 N71-17649
Design, development, and characteristics of latching mechanism for operation in limited access areas
[NASA-CASE-XMS-03745] c15 N71-21076
Latching mechanism with pivoting catch and self-contained spring ejector
[NASA-CASE-XLA-03538] c15 N71-24897
Latch for fastening spacecraft docking rings
[NASA-CASE-MSC-15474-1] c15 N71-26162
Latch mechanism
[NASA-CASE-MSC-12549-1] c15 N74-27903
Latching device
[NASA-CASE-MFS-21606-1] c37 N75-19685

LATERAL CONTROL

Three-axis controller operated by hand-wrist motion for yaw, pitch, and roll control
[NASA-CASE-XAC-01404] c05 N70-41581
Star sensor system for roll attitude control of spacecraft
[NASA-CASE-XNP-01307] c21 N70-41856
Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088

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Strapped down gyroscope aligned with sun and star tracker optical axis calibrating roll, yaw and pitch values
[NASA-CASE-ABC-10716-1] c31 N73-32784
Variable dihedral shuttle orbiter --- for flight at hypersonic and subsonic speeds
[NASA-CASE-LAR-10706-1] c18 N75-16613

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[NASA-CASE-XMS-04292] c15 N71-22722
Lathe tool and holder combination for machining resin impregnated fiberglass cloth laminates
[NASA-CASE-XLA-10470] c15 N72-21489

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Emergency escape cabin system for launch towers

LAUNCH VEHICLES

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[NASA-CASE-XKS-02342] c05 N71-11199
Ejector for separating astronaut from ejection seat during prelaunch or initial launch phase of flight
[NASA-CASE-XMS-04625] c05 N71-20718

LAUNCH VEHICLES
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[NASA-CASE-XLA-02704] c11 N69-21540
Microleak detector mounted on weld seam of propellant tank of launch vehicle
[NASA-CASE-XMF-02307] c14 N71-10779

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[NASA-CASE-XMF-03198] c30 N70-40353
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[NASA-CASE-XLA-01396] c03 N71-12259
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[NASA-CASE-XKS-10543] c07 N71-26292

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Bonding method for improving contact between lead telluride thermoelectric elements and tungsten electrodes
[NASA-CASE-XGS-04554] c15 N69-39786
Procedure for segmenting lead telluride and silicon germanium thermoelectric elements to obtain composite elements effective over wide temperature range
[NASA-CASE-XGS-05718] c26 N71-16037

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Leading edge design for hypersonic reentry vehicles
[NASA-CASE-XLA-0C165] c31 N70-33242
Construction of leading edges of surfaces for aerial vehicles performing from subsonic to above transonic speeds
[NASA-CASE-XLA-01486] c01 N71-23497

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Rocket chamber leak test fixture using tubular plug
[NASA-CASE-XFR-05479] c14 N69-27503
Microleak detector mounted on weld seam of propellant tank of launch vehicle
[NASA-CASE-XMF-02307] c14 N71-10779
Fluid leakage detection system with automatic monitoring capability
[NASA-CASE-LAR-10323-1] c12 N71-17573
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[NASA-CASE-XAC-07043] c05 N71-23161
Development of apparatus and method for testing leakage of large tanks
[NASA-CASE-XMF-02392] c32 N71-24285
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[NASA-CASE-ERC-10034] c15 N71-24896
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[NASA-CASE-ERC-10045] c15 N71-24910
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[NASA-CASE-ERC-10033] c14 N71-26672
Test chambers with orifice and helium mass spectrometer for detecting leak rate of encapsulated semiconductor devices
[NASA-CASE-ERC-10150] c14 N71-28992
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[NASA-CASE-MFS-21761-1] c35 N75-15931
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[NASA-CASE-LAR-11237-1] c35 N75-19612

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Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c54 N75-32767

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Lens assembly for solar furnace or solar simulator
[NASA-CASE-XMF-04111] c14 N71-15622
Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-XMF-03844-1] c14 N71-26474

Development and characteristics of Petzval type objective including field shaping lens for focusing light of specified wavelength band on curved photoreceptor
[NASA-CASE-GSC-10700] c23 N71-30027
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[NASA-CASE-GSC-11133-1] c23 N72-11568
Photographic film restoration system using Fourier transformation lenses and spatial filter
[NASA-CASE-MSC-12448-1] c14 N72-20394
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[NASA-CASE-GSC-11013-1] c09 N73-19234

LENTICULAR BODIES
Lenticular vehicle with foldable aerodynamic control flaps and reaction jets for operation above and within earth's atmosphere
[NASA-CASE-XGS-00260] c31 N70-37924

LEVEL (HORIZONTAL)
Hot-wire liquid level detector for cryogenic propellants
[NASA-CASE-XLE-00454] c23 N71-17802

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Gauge for measuring quantity of liquid in spherical tank in reduced gravity
[NASA-CASE-XMS-06236] c14 N71-21007
Conversion of positive dc voltage to positive dc voltage of lower amplitude
[NASA-CASE-XMF-14301] c09 N71-23188

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Development of adjustable attitude guide block for setting pins perpendicular to irregular convex work surface
[NASA-CASE-XLA-07911] c15 N71-15571
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[NASA-CASE-NPO-10037] c09 N71-19610
Adjustable support device with jacket screw for altering distance between base and supported member
[NASA-CASE-NPO-10721] c15 N72-27484
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[NASA-CASE-MFS-22039-1] c09 N75-12968

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Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c15 N74-21064

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[NASA-CASE-XGS-05533] c04 N69-27487
Describing method for lyophilization of luciferase containing mixtures for use in life detection reactions
[NASA-CASE-XGS-05532] c06 N71-17705

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Design of inflatable life raft for aircrafts and boats
[NASA-CASE-XMS-00863] c05 N70-34857
Inflatable stabilizing system for use on life raft to reduce rocking and preclude capsizing
[NASA-CASE-MSC-12393-1] c02 N73-26006
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[NASA-CASE-LAR-10241-1] c05 N74-14845

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[NASA-CASE-XMS-01240] c05 N70-35152
Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
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[NASA-CASE-MSC-12243-1] c05 N71-24728
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[NASA-CASE-XMS-09637-1] c05 N71-24730
Development and characteristics of inflatable structure to provide escape from orbit for spacecrews under emergency conditions
[NASA-CASE-XMS-06162] c31 N71-28851
Chlorine generator for purifying water in life support systems of manned spacecraft

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LIGHT TRANSMISSION

[NASA-CASE-XLA-08913] c14 N71-28933
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[NASA-CASE-MSC-12411-1] c05 N72-20096
Device for removing air from water for use in life support systems in manned space flight
[NASA-CASE-XLA-8914] c15 N73-12492
Intra- and extravehicular life support space suite for Apollo astronauts
[NASA-CASE-MSC-12609-1] c05 N73-32012
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c06 N74-12813

LIFT DEVICES
Device for handling heavy loads by distributing forces
[NASA-CASE-XNP-04969] c11 N69-27466
Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections
[NASA-CASE-XMF-00389] c31 N70-34176
Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft
[NASA-CASE-LAR-10249-1] c02 N71-26110
Development of auxiliary lifting system to provide ferry capability for entry vehicles
[NASA-CASE-LAR-10574-1] c11 N73-13257
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[NASA-CASE-LAR-11252-1] c05 N75-25914

LIFT DRAG RATIO
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[NASA-CASE-XLA-04901] c31 N71-24315

LIFTING BODIES
Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections
[NASA-CASE-XMF-00389] c31 N70-34176
Graphic illustration of lifting body design
[NASA-CASE-PRC-10063] c01 N71-12217
Static force balancing system attached to lifting body
[NASA-CASE-LAR-10348-1] c11 N73-12264

LIFTING REENTRY VEHICLES
Lenticular vehicle with foldable aerodynamic control flaps and reaction jets for operation above and within earth's atmosphere
[NASA-CASE-XGS-00260] c31 N70-37924
Variable geometry ranned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings
[NASA-CASE-XLA-03691] c31 N71-15674
Designing spacecraft for flight into space, atmospheric reentry, and landing at selected sites
[NASA-CASE-XAC-02058] c02 N71-16087

LIGHT (VISIBLE RADIATION)
Light baffle with oblate hemispheroid surface and shading flange
[NASA-CASE-NPO-10337] c14 N71-15604
Maksutov spectrograph for low light level research
[NASA-CASE-XLA-10402] c14 N71-29041
Method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c25 N72-21693
Device for detection of combustion light preceding gaseous explosions
[NASA-CASE-LAR-10739-1] c14 N73-16484

LIGHT AIRCRAFT
Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft
[NASA-CASE-LAR-10249-1] c02 N71-26110

LIGHT BEAMS
Cylindrical reflector for resolving wide angle light beam from telescope into narrow beam for spectroscopic analysis
[NASA-CASE-XGS-08269] c23 N71-26206
Development and characteristics of optical communications system based on modulation of light beams
[NASA-CASE-XLA-01090] c16 N71-28963
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[NASA-CASE-ERC-10151] c16 N71-29131

LIGHT GAS GUNS
Implosion driven, light gas, hypervelocity gun
[NASA-CASE-XAC-05902] c11 N71-18578

LIGHT MODULATION
Optical retrodirective modulator with focus spoiling reflector driven by modulation signal
[NASA-CASE-GSC-10062] c14 N71-15605
Modulating and controlling intensity of light beam from high temperature source by servocontrolled rotating cylinders
[NASA-CASE-XMS-04300] c09 N71-19479
Method and apparatus for optically modulating light or microwave beam
[NASA-CASE-GSC-10216-1] c23 N71-26722
Development and characteristics of optical communications system based on modulation of light beams
[NASA-CASE-XLA-01090] c16 N71-28963
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[NASA-CASE-KSC-10565] c09 N72-25250
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c07 N74-22827
Method and system for producing chroma signals
[NASA-CASE-MSC-14683-1] c74 N75-33835

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Light radiation direction indicator with baffle of two parallel grids
[NASA-CASE-XNP-03930] c14 N69-24331
High intensity heat and light unit containing quartz lamp elements protectively positioned to withstand severe environmental stress
[NASA-CASE-XLA-00141] c09 N70-33312
Photosensitive light source device for detecting unmanned spacecraft deviation from reference attitude
[NASA-CASE-XNP-00438] c21 N70-35089
Electro-optical detector for determining position of light source
[NASA-CASE-XNP-01059] c23 N71-21821
Optical system for selecting particular wavelength light beams from multiple wavelength light source
[NASA-CASE-ERC-10248] c14 N72-17323
Electro-optical stabilization of calibrated light source
[NASA-CASE-MSC-12293-1] c14 N72-27411
Development of temperature compensated light source with components and circuitry for maintaining luminous intensity independent of temperature variations
[NASA-CASE-ARC-10467-1] c09 N73-14214
Interferometer prism and control system for precisely determining direction to remote light source
[NASA-CASE-ARC-10278-1] c14 N73-25463
Attitude sensor
[NASA-CASE-LAR-10586-1] c14 N74-15089
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c33 N75-27250
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c33 N75-29318

LIGHT TRANSMISSION
Hybrid holographic system using reference, transmitted, and reflected beams simultaneously
[NASA-CASE-MFS-20074] c16 N71-15565
Optical characteristics measuring apparatus
[NASA-CASE-XNP-08840] c23 N71-16365
Optical monitor panel consisting of translucent screen with test or meter information projected onto it from rear for application in control rooms of missile launching and tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175
Solar cell panel with light transmitting cover plate
[NASA-CASE-NPO-10747] c03 N72-22042
Method and system for transmitting and distributing optical frequency radiation
[NASA-CASE-HQN-10541-3] c23 N72-23695
Thin absorbing metallic film for increased visible light transmission
[NASA-CASE-LAR-10836-1] c26 N72-27784
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c23 N74-13436

LIGHTING EQUIPMENT

SUBJECT INDEX

LIGHTING EQUIPMENT

Sealed fluorescent tube light unit capable of connection with other units to form string of work lights
[NASA-CASE-XKS-05932] c09 N71-26787
Pressurized inert gas feed for lighting system
[NASA-CASE-KSC-10644] c09 N72-27227

LIGHTNING

Apparatus for determining distance to lightning strokes from single station by magnetic and electric field sensing antennas
[NASA-CASE-KSC-10698] c07 N73-20175
System for locating lightning strokes by coordination of directional antenna signals
[NASA-CASE-KSC-10729-1] c09 N73-32110
Monitoring and recording lightning strokes in predetermined area
[NASA-CASE-KSC-10728-1] c14 N73-32319
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c33 N75-26246

LIGHTER CIRCUITS

Variable duration pulse integrator design for integrating pulse duration modulated pulses with elimination of ripple content
[NASA-CASE-XLA-01219] c10 N71-23084
Circuits for amplitude limiting of random noise inputs
[NASA-CASE-NPO-10169] c10 N71-24844
Velocity limiting safety system for motor driven research vehicle
[NASA-CASE-XLA-07473] c15 N71-24895
Low level signal limiter
[NASA-CASE-XLE-04791] c14 N74-22096

LINEAR ACCELERATORS

Linear accelerator frequency control system
[NASA-CASE-XGS-05441] c10 N71-22962

LINEAR RECEIVERS

Antenna array at focal plane of reflector with coupling network for beam switching
[NASA-CASE-GSC-10220-1] c07 N71-27233

LINEAR SYSTEMS

Linear three-tap feedback shift register
[NASA-CASE-NPO-10351] c08 N71-12503
Family of m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c10 N73-20254

LINEARITY

Semilinear bearing comprising two rows of roller bearings separated by spherical bearings and permitting rotational and translational movement
[NASA-CASE-XLA-02809] c15 N71-22982
Mechanical actuator wherein linear motion changes to rotational motion
[NASA-CASE-XGS-04548] c15 N71-24045

LINKAGES

Development of collapsible nozzle extension for rocket engines
[NASA-CASE-MFS-11497] c28 N71-16224
Design and construction of mechanical probe for determining if object is properly secured
[NASA-CASE-MFS-20760] c14 N72-33377

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Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c07 N74-30532

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Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c52 N75-33640

LIQUID BEARINGS

Fatigue life of hybrid antifriction bearings at ultrahigh speeds
[NASA-CASE-LEW-11152-1] c15 N73-32359

LIQUID COOLING

Water cooled contactors for holding rotating carbon arc anode
[NASA-CASE-XMS-03700] c15 N69-24266
External device for liquid spray cooling of gas turbine blades
[NASA-CASE-XLE-00037] c28 N70-33372
Water cooled solenoid capable of producing magnetic field intensities up to 100 kilogauss
[NASA-CASE-XNP-01951] c09 N70-41929
Laminar flow of liquid coolants in rocket engines
[NASA-CASE-NPO-10122] c12 N71-17631
Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439

Electric power system with circulatory liquid coolant cooling system

[NASA-CASE-MFS-14114-2] c09 N71-24807

Electric power system with thermionic diodes and circulatory liquid metal coolant lines
[NASA-CASE-MFS-14114] c33 N71-27862

Apparatus for liquid spray cooling of turbine blades
[NASA-CASE-XLE-00027] c33 N71-29152

Automatic control device for regulating inlet water temperature of liquid cooled spacesuit
[NASA-CASE-MSC-13917-1] c05 N72-15098

Automatic temperature control for liquid cooled space suit
[NASA-CASE-ARC-10599-1] c05 N73-26071

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Development of combined velocimeter and accelerometer based on color changes in liquid crystalline material subjected to shear stresses
[NASA-CASE-ERC-10292] c14 N72-25410

Input signal measurement using liquid crystalline elements
[NASA-CASE-ERC-10275] c26 N72-25680

Real time liquid crystal image converter
[NASA-CASE-LAB-11206-1] c23 N74-30118

LIQUID FILLED SHELLS

Liquid rocket systems for propulsion and control of spacecraft
[NASA-CASE-XNP-00610] c28 N70-36910

Design and development of fluid sample collector
[NASA-CASE-XMS-06767-1] c14 N71-20435

Manufacture of fluid containers from fused coated polyester sheets having resealable septum
[NASA-CASE-NPO-10123] c15 N71-24835

Omnidirectional liquid filled accelerometer design with liquid and housing temperature compensation
[NASA-CASE-HQN-10780] c14 N71-30265

LIQUID FLOW

Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks
[NASA-CASE-XLE-02624] c12 N69-39988

Liquid junction for glass electrode or pH meters
[NASA-CASE-NPO-10682] c15 N70-34699

Actuator using compressed gas as driving force to control valve handling large liquid flows
[NASA-CASE-XHC-01208] c15 N70-35409

Two component valve assembly for cryogenic liquid transfer regulation
[NASA-CASE-XLE-00397] c15 N70-36492

Positive displacement flowmeter for measuring extremely low flows of fluid with self calibrating features
[NASA-CASE-XNP-02822] c14 N70-41994

High pressure liquid flow sight assembly for wide temperature range applications including cryogenic fluids
[NASA-CASE-XLE-02998] c14 N70-42074

Carrier liquid system containing bodies of ablative material
[NASA-CASE-LEW-10359-2] c33 N73-25952

Zero gravity liquid transfer device, using spiral shaped screen
[NASA-CASE-KSC-10626] c14 N73-27378

System for measuring Reynolds stress in a turbulently flowing fluid --- signal processing
[NASA-CASE-ABC-10755-2] c34 N75-16770

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Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c20 N75-24837

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Development of thermal insulation material for insulating liquid hydrogen tanks in spacecraft
[NASA-CASE-XNP-05046] c33 N71-28892

Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c15 N74-18126

LIQUID INJECTION

Thrust vector control by secondary injection of fluid into rocket nozzle flow field to separate exhaust flow
[NASA-CASE-XLE-00208] c28 N70-34294

System for aerodynamic control of rocket vehicles by secondary injection of fluid into nozzle exhaust stream
[NASA-CASE-XLA-01163] c21 N71-15582

- Propellant injection assembly having individually removable and replaceable nozzles for liquid fueled rocket engines
[NASA-CASE-XMF-00968] c28 N71-15660
- LIQUID LASERS**
Method and apparatus using temperature control for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c16 N69-31343
- LIQUID LEVELS**
Inductive liquid level detection system
[NASA-CASE-XLE-01609] c14 N71-10500
- LIQUID METALS**
Magnetohydrodynamic generator for mixing nonconductive gas and liquid metal mist to form slugs
[NASA-CASE-XLE-02083] c03 N69-39983
Thermoelectric power conversion by liquid metal flowing through magnetic field
[NASA-CASE-XNP-00644] c03 N70-36803
Analytical test apparatus and method for determining oxygen content in alkali liquid metal
[NASA-CASE-XLE-01997] c06 N71-23527
Electric power system with thermionic diodes and circulatory liquid metal coolant lines
[NASA-CASE-MFS-14114] c33 N71-27862
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
Shell-side liquid metal boiler employing tube and shell heat exchanger
[NASA-CASE-NPO-10831] c33 N72-20915
U shaped heated tube for distillation and purification of liquid metals
[NASA-CASE-XNP-08124-2] c06 N73-13129
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c14 N74-21018
- LIQUID NITROGEN**
Transferring liquid nitrogen through vacuum chamber to cryopanel
[NASA-CASE-LAR-10031] c15 N72-22484
- LIQUID OXYGEN**
Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
[NASA-CASE-XMF-02221] c18 N71-27170
- LIQUID PHASES**
Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635
Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-XNP-07659] c06 N71-22975
Mixed liquid and vapor phase analyzer design with thermocouples for relative heat transfer measurement
[NASA-CASE-NPO-10691] c14 N71-26199
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c31 N75-32262
- LIQUID PROPELLANT ROCKET ENGINES**
High thrust annular liquid propellant rocket engine and exhaust nozzle design
[NASA-CASE-XLE-00078] c28 N70-33284
Attitude and propellant flow control system for liquid propellant rocket vehicles
[NASA-CASE-XMF-00185] c21 N70-34539
Injector manifold assembly for bipropellant rocket engines providing for fuel propellant to serve as coolant
[NASA-CASE-XMF-00148] c28 N70-38710
Collapsible auxiliary tank for restarting liquid propellant rocket motors under zero gravity
[NASA-CASE-XNP-01390] c28 N70-41275
Rocket propellant injector with porous faceplate for rocket engine combustion chamber
[NASA-CASE-LEW-11071-1] c27 N73-27695
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c28 N74-13502
Space vehicle
[NASA-CASE-MFS-22734-1] c18 N75-19329
- LIQUID ROCKET PROPELLANTS**
Propellant injectors for rocket combustion chambers
[NASA-CASE-XLE-00103] c28 N70-33241
- Liquid rocket systems for propulsion and control of spacecraft
[NASA-CASE-XNP-00610] c28 N70-36910
Igniter capsule for chemical ignition of liquid rocket propellants
[NASA-CASE-XLE-00323] c28 N70-38505
High temperature spark plug for igniting liquid rocket propellants
[NASA-CASE-XLE-00660] c28 N70-39925
Compact high pressure filter for rocket fuel lines
[NASA-CASE-XNP-00732] c28 N70-41447
Venting device for liquid propellant storage tank using magnetic field to separate liquid and gaseous phases
[NASA-CASE-XLE-01449] c15 N70-41646
Liquid propellant tank design with semitoroidal bulkhead
[NASA-CASE-XMF-01899] c31 N70-41948
Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635
Control valve and coaxial variable injector for controlling bipropellant mixture ratio and flow
[NASA-CASE-XNP-09702] c15 N71-17654
Slosh and swirl alleviator for liquid propellant tanks during transport and flight
[NASA-CASE-XLA-05749] c15 N71-19569
Filler valve design for supplying liquid propellants at high pressure to space vehicles
[NASA-CASE-XNP-01747] c15 N71-23024
Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NPO-10185] c10 N71-26339
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
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[NASA-CASE-MFS-11204] c14 N71-29134
- LIQUID SLOSHING**
Slosh damping method for liquid rocket propellant tanks
[NASA-CASE-XMF-00658] c12 N70-38997
Flexible ring slosh damping baffle for spacecraft fuel tank
[NASA-CASE-LAR-10317-1] c32 N71-16103
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[NASA-CASE-XLA-04605] c32 N71-16106
Hot-wire liquid level detector for cryogenic propellants
[NASA-CASE-XLE-00454] c23 N71-17802
Slosh and swirl alleviator for liquid propellant tanks during transport and flight
[NASA-CASE-XLA-05749] c15 N71-19569
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[NASA-CASE-XLA-05541] c12 N71-26387
- LIQUID-GAS MIXTURES**
Liquid-gas separator adapted for use in zero gravity environment - drawings
[NASA-CASE-XMS-01624] c15 N70-40062
Absorbent apparatus for separating gas from liquid-gas stream used in environmental control under zero gravity conditions
[NASA-CASE-XMS-01492] c05 N70-41297
Venting device for liquid propellant storage tank using magnetic field to separate liquid and gaseous phases
[NASA-CASE-XLE-01449] c15 N70-41646
Liquid-gaseous centrifugal separator for weightlessness environment
[NASA-CASE-XLA-00415] c15 N71-16079
Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
[NASA-CASE-XMF-04042] c15 N71-23023
- LIQUID-VAPOR INTERFACES**
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[NASA-CASE-XLE-00586] c15 N71-15968

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[NASA-CASE-XNP-02862-1] c15 N71-26294
- Response analyzing apparatus for liquid vapor interface sensor of sloshing rocket propellant
[NASA-CASE-MFS-11204] c14 N71-29134
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[NASA-CASE-XMS-01624] c15 N70-40062
- Electrical switching device comprising conductive liquid confined within square loop of deformable nonconductive tubing also used for leveling
[NASA-CASE-NPO-10037] c09 N71-19610
- Purification apparatus for vaporization and fractional distillation of liquids
[NASA-CASE-XNP-08124] c15 N71-27184
- Quantitative liquid measurements in container by resonant frequencies
[NASA-CASE-XNP-02500] c18 N71-27397
- Resonant infrasonic gauging device for measuring liquid quantity in closed bladderless reservoir
[NASA-CASE-MSC-11847-1] c14 N72-11363
- Ablative system with liquid carrying ablative material bodies and forming self-replacing ablative surface
[NASA-CASE-LW-10359] c33 N72-25911
- Pressurized tank for feeding liquid waste into processing equipment
[NASA-CASE-LAR-10365-1] c05 N72-27102
- Apparatus for mixing two or more liquids under zero gravity conditions
[NASA-CASE-LAR-10195-1] c15 N73-19458
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[NASA-CASE-ARC-10441-1] c15 N74-15126
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[NASA-CASE-MSC-14187-1] c14 N74-32879
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[NASA-CASE-LAR-11071-1] c35 N75-19611
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[NASA-CASE-NPO-10998-1] c06 N73-32029
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- Force measuring instrument for structural members, particularly fastening bolts or studs
[NASA-CASE-XNP-00456] c14 N70-34705
- Multiple Belleville spring assembly with even load distribution
[NASA-CASE-XNP-00840] c15 N70-38225
- Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c14 N75-24794
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[NASA-CASE-ARC-10907-1] c37 N75-32465
- LOAD TESTING MACHINES**
- Load cell protection device using spring-loaded breakaway mechanism
[NASA-CASE-XMS-06782] c32 N71-15974
- Development of device for transferring load from load cell to bypass mechanism
[NASA-CASE-XMS-06329-1] c15 N71-20441
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[NASA-CASE-LAR-10208-1] c14 N74-30894
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- Differential pressure cell insensitive to changes in ambient temperature and extreme overload
[NASA-CASE-XAC-00042] c14 N70-34816
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- Air bearings for near frictionless transfer of loads from one body to another
[NASA-CASE-XNP-01887] c15 N71-10617
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[NASA-CASE-MFS-23233-1] c54 N75-33725
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- Device for handling heavy loads by distributing forces
[NASA-CASE-XNP-04969] c11 N69-27466
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[NASA-CASE-XAC-00073] c14 N70-34813
- Improving load capacity and fatigue life of rolling element systems in rockets and missiles
[NASA-CASE-XLE-02999] c15 N71-16052
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[NASA-CASE-XMS-06329-1] c15 N71-20441
- Valve assembly for controlling simultaneously more than one fluid flow, and having stable qualities under loads
[NASA-CASE-XMS-05890] c09 N71-23191
- Solid state force measuring electromechanical transducers made of piezoresistive materials
[NASA-CASE-ERC-10088] c26 N71-25490
- Turn on current transient limiter for controlling peak current flow in high capacity load
[NASA-CASE-GSC-10413] c10 N71-26531
- Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136
- Force balanced throttle valve for fuel control in rocket engines
[NASA-CASE-NPO-10808] c15 N71-27432
- Energy absorption device in high precision gear train for protection against damage to components caused by stop loads
[NASA-CASE-XNP-01848] c15 N71-28959
- Air bearing for use in exterior environment for moving heavy loads
[NASA-CASE-WLP-10002] c15 N72-17451
- Measuring device for bearing preload using spring washers
[NASA-CASE-MFS-20434] c11 N72-25288
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[NASA-CASE-MFS-20317] c15 N73-13463
- Versatile ergometer with work load control
[NASA-CASE-MFS-21109-1] c05 N73-27941
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[NASA-CASE-FRC-10051-1] c14 N74-13129
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[NASA-CASE-ARC-10806] c14 N74-27872
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- System for locating lightning strokes by coordination of directional antenna signals
[NASA-CASE-KSC-10729-1] c09 N73-32110
- Position determination systems --- using orbital antenna scan of celestial body
[NASA-CASE-MSC-12593-1] c09 N74-14942
- Aircraft mounted crash activated transmitter device
[NASA-CASE-MFS-16609-3] c09 N74-34647
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- Releasable coupling device designed to receive and retain matching ends of electrical connectors
[NASA-CASE-XMS-07846-1] c09 N69-21927
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- Ball locking device which releases in response to small forces when subjected to high axial loads
[NASA-CASE-XNP-01371] c15 N70-41829
- Low friction bearing and lock mechanism for two-axis gimbal carrying satellite payload
[NASA-CASE-GSC-10556-1] c31 N71-26537
- Locking device for retaining turbine rotor blades on turbine wheel
[NASA-CASE-XNP-00816] c28 N71-28928
- Longitudinal film gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935
- Design of quick release locking pin for joining two or more load-carrying structural members
[NASA-CASE-MFS-18495] c15 N72-11385
- LOCOMOTION**
- Jet shoes for space locomotion
[NASA-CASE-XLA-08491] c05 N69-21380
- Attitude control training device for astronauts permitting friction-free movement with five degrees of freedom
[NASA-CASE-XMS-02977] c11 N71-10746
- Restraint torso for increased mobility and reduced physiological effects while wearing pressurized suits
[NASA-CASE-MSC-12397-1] c05 N72-25119

LOGARITHMS

Technique for deriving logarithm of input signal using exponentially varying electric signal inversely

[NASA-CASE-ERC-10267] c09 N72-23173

LOGIC CIRCUITS

Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits

[NASA-CASE-ERC-10072] c09 N70-11148

Counter-divisor circuit for accuracy and reliability in binary circuits

[NASA-CASE-XMF-00421] c09 N70-34502

Binary to binary-coded decimal converter using single set of logic circuits notwithstanding number of shift register decades

[NASA-CASE-XNP-00432] c08 N70-35423

Conversion system for increasing resolution of analog to digital converters

[NASA-CASE-IAC-00404] c08 N70-40125

Data processor having multiple sections activated at different times by selective power coupling to sections

[NASA-CASE-XGS-04767] c08 N71-12494

Binary sequence detector with few memory elements and minimized logic circuit complexity

[NASA-CASE-XNP-05415] c08 N71-12505

Bistable multivibrator circuits operating at high speed and low power dissipation

[NASA-CASE-XGS-00823] c10 N71-15910

Logic AND gate for fluid circuits

[NASA-CASE-XLA-07391] c12 N71-17579

Logic circuit to ripple add and subtract binary counters for spaceborne computers

[NASA-CASE-XGS-04766] c08 N71-18602

Constructing Exclusive-Or digital logic circuit in single module

[NASA-CASE-XLA-07732] c08 N71-18751

Stepping motor control apparatus exciting windings in proper time sequence to cause motor to rotate in either direction

[NASA-CASE-GSC-10366-1] c10 N71-18772

Serial digital decoder design with square circuit matrix and serial memory storage units

[NASA-CASE-NPO-10150] c08 N71-24650

Binary to decimal decoder logic circuit design with feedback control and display device

[NASA-CASE-XKS-06167] c08 N71-24890

Design and development of multistage current steering switch with inductively coupled magnetic cores

[NASA-CASE-XNP-08567] c09 N71-26000

Logic circuit for generating multibit binary code word in parallel

[NASA-CASE-XNP-04623] c10 N71-26103

Adaptive signal generating system and logic circuits for satellite television systems

[NASA-CASE-GSC-11367] c10 N71-26374

Transistorized switching logic circuits with tunnel diodes

[NASA-CASE-GSC-10878-1] c10 N72-22236

Logical function and circuit generator

[NASA-CASE-XLA-05099] c09 N73-13209

A synchronous binary array divider

[NASA-CASE-ERC-10180-1] c08 N74-20836

Computer interface system --- using asynchronous clocks

[NASA-CASE-NPO-13428-1] c08 N74-30549

Four phase logic systems --- including integrated microcircuits

[NASA-CASE-MSC-14240-1] c33 N75-14957

LONGITUDINAL CONTROL

Three-axis controller operated by hand-wrist motion for yaw, pitch, and roll control

[NASA-CASE-XAC-01404] c05 N70-41581

LOOP ANTENNAS

Collapsible, space erectable loop antenna system for space vehicle

[NASA-CASE-XMF-00437] c07 N70-40202

Automatic carrier acquisition system for phase locked loop receiver

[NASA-CASE-NPO-11628-1] c07 N73-30113

LOOPS

Tape cartridge with high capacity storage of endless-loop magnetic tape

[NASA-CASE-XGS-00769] c14 N70-41647

Endless loop tape transport mechanism for driving and tensioning recording medium in

magnetic tape recorder

[NASA-CASE-XGS-01223] c07 N71-10609

Filter for third order phase locked loops in signal receivers

[NASA-CASE-NPO-11941-1] c10 N73-27171

High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways

[NASA-CASE-ARC-10516-1] c23 N74-21300

Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop

[NASA-CASE-LAR-10168-1] c09 N74-22865

LOW ASPECT RATIO

Aerospace configuration with low and high aspect ratio variability for high and low speed flight

[NASA-CASE-XLA-00142] c02 N70-33286

Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields

[NASA-CASE-XLA-00806] c02 N70-34858

LOW COST

Low cost efficient thermionic converter for use in nuclear reactors

[NASA-CASE-NPO-13121-1] c22 N73-12702

Lightweight reflector assembly and method

[NASA-CASE-NPO-13707-1] c74 N75-32894

LOW DENSITY MATERIALS

Method and photodetector device for locating abnormal voids in low density materials

[NASA-CASE-MFS-20044] c14 N71-28993

Mixing insert for foam dispensing apparatus

[NASA-CASE-MFS-20607-1] c15 N74-26989

Intumescent composition, foamed product prepared therewith and process for making same

[NASA-CASE-ARC-10304-2] c18 N74-27037

Process for preparing low density polybenzimidazole foams

[NASA-CASE-ARC-10823-1] c27 N75-24938

LOW FREQUENCIES

Determining sway of buildings by low frequency device using pendulum

[NASA-CASE-XMF-00479] c14 N70-34794

LOW MOLECULAR WEIGHTS

Process for preparing high molecular weight polyaryloxysilanes from lower molecular weight forms

[NASA-CASE-XMF-08674] c06 N71-28807

LOW NOISE

Low phase noise frequency divider for use with deep space network communication system

[NASA-CASE-NPO-11569] c10 N73-26229

LOW PRESSURE

Flowmeters for sensing low fluid flow rate and pressure for application to respiration rate studies

[NASA-CASE-FRC-10022] c12 N71-26546

LOW SPEED

Variable geometry manned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings

[NASA-CASE-XLA-03691] c31 N71-15674

Device utilizing RC rate generators for continuous slow speed measurement

[NASA-CASE-XMF-02966] c10 N71-24863

LOW TEMPERATURE

Low to high temperature energy conversion system --- using ammonia

[NASA-CASE-NPO-13510-1] c44 N75-16972

LOW TEMPERATURE ENVIRONMENTS

Flexible, frangible electrochemical cell and package for operation in low temperature environment

[NASA-CASE-XGS-10010] c03 N72-15986

LOW TEMPERATURE TESTS

Cryostat for flexure fatigue testing of composite materials

[NASA-CASE-XMF-02964] c14 N71-17659

Cryostat for use with horizontal fatigue testing machines at low temperatures

[NASA-CASE-XMF-10968] c14 N71-24234

LOW VACUUM

Vibration damping system operating in low vacuum environment for spacecraft mechanisms

[NASA-CASE-XHS-01620] c23 N71-15673

LOW VOLTAGE

High speed low level voltage commutating switch

[NASA-CASE-XAC-00060] c09 N70-39915

- Flexible monopole antenna with broad bandwidth and low voltage standing wave ratio
[NASA-CASE-MSC-12101] c09 N71-18720
- Circuit design for failure sensing and protecting low voltage electric generator and power transmission networks
[NASA-CASE-GSC-10114-1] c10 N71-27366
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- Metallic film diffusion into metal or ceramic surfaces for boundary lubrication in aerospace environments
[NASA-CASE-XLE-01765] c18 N71-10772
- Metallic film diffusion for boundary lubrication in aerospace engineering
[NASA-CASE-XLE-10337] c15 N71-24046
- Fluorinated esters of polycarboxylic acid and lubricating compositions for use at extreme temperature
[NASA-CASE-MFS-21040-1] c06 N73-30098
- Thiophenyl ether disiloxanes and trisiloxanes, useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c15 N74-21058
- Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c15 N74-21061
- LUBRICATING OILS**
- Fluid seal formed by flexible disk on rotating shaft to retain lubricating oils around shaft
[NASA-CASE-XLE-05130-2] c15 N71-19570
- LUBRICATION**
- Hollow high strength rolling elements for antifriction bearings fabricated from preformed compcnents
[NASA-CASE-LEW-11026-1] c15 N73-33383
- Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c37 N75-13265
- LUBRICATION SYSTEMS**
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[NASA-CASE-XNP-01641] c15 N71-22997
- Lubrication for bearings by capillary action from oil reservoir of porous material
[NASA-CASE-XNP-02972] c15 N71-23048
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[NASA-CASE-LEW-11076-2] c15 N74-32921
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- Visual target luminaires for retrofire attitude control
[NASA-CASE-XMS-12158-1] c31 N69-27499
- Development of ultraviolet resonance lamp with improved transmission of radiation
[NASA-CASE-ARC-10030] c09 N71-12521
- Lamp modulator for generating visual indication of presence and magnitude of signal
[NASA-CASE-KSC-10565] c09 N72-25250
- Electrodeless lamp circuit driven by induction
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- LUMINOUSITY**
- Mechanism for measuring nanosecond time differences between luminous events using streak camera
[NASA-CASE-XLA-01987] c23 N71-23976
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- Filter arrangement for controlling light intensity in motion picture camera used in optical pyrometry
[NASA-CASE-XLA-00062] c14 N70-33254
- Development of star intensity measuring system which minimizes effects of outside interference
[NASA-CASE-XNP-06510] c14 N71-23797
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[NASA-CASE-XMS-07168] c07 N71-11300
- Three transceiver lunar emergency system to relay voice communication of astronaut
[NASA-CASE-MFS-21042] c07 N72-25171
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[NASA-CASE-XLA-00934] c14 N71-22765
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[NASA-CASE-XLA-00934] c14 N71-22765
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[NASA-CASE-XLA-03127] c11 N71-10776
- MANNED ORBITAL RESEARCH LABORATORIES**
- Manned space station collapsible for launching and self-erectable in orbit
[NASA-CASE-XLA-00678] c31 N70-34296
- Radial module manned space station with artificial gravity environment
[NASA-CASE-XMS-01906] c31 N70-41373
- MANNED SPACE FLIGHT**
- Three-port transfer valve with one port open continuously suitable for manned space flight
[NASA-CASE-XAC-01158] c15 N71-23051
- Device for removing air from water for use in life support systems in manned space flight
[NASA-CASE-XLA-8914] c15 N73-12492
- MANNED SPACECRAFT**
- Manned space capsule configuration for orbital flight and atmospheric reentry
[NASA-CASE-XLA-00149] c31 N70-37938
- Delta winged, manned reentry vehicle capable of horizontal glide landing at low speeds
[NASA-CASE-XLA-00241] c31 N70-37986
- Parachute system for lowering manned spacecraft from post-reentry to ocean landing
[NASA-CASE-XLA-00195] c02 N70-38009
- Design and configuration of manned space capsule
[NASA-CASE-XLA-01332] c31 N71-15664
- Development of method for producing artificial gravity in manned spacecraft
[NASA-CASE-XNP-02595] c31 N71-21881

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Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933

Collapsible couch system for manned space vehicles
[NASA-CASE-MSC-13140] c05 N72-11085

Spacecraft with artificial gravity and earthlike atmosphere
[NASA-CASE-LPW-11101-1] c31 N73-32750

Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c54 N75-13536

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Magnetically centered liquid column float
[NASA-CASE-XAC-00030] c14 N70-34820

Absolute pressure measuring device for measuring gas density level in high vacuum range
[NASA-CASE-LAR-10000] c14 N73-30394

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Multiple circuit switch apparatus requiring minimum hand and eye movement by operator
[NASA-CASE-XAC-03777] c10 N71-15909

Manual control mechanism for adjusting control rod to null position
[NASA-CASE-XLA-01808] c15 N71-20740

Manually activated heat pump for mechanically converting human operator output into heat energy
[NASA-CASE-NPO-10677] c05 N72-11084

Development of flight simulator system to show position of joystick displacement
[NASA-CASE-NPO-11497] c08 N73-25206

Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c03 N74-10942

G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381

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Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
[NASA-CASE-ERC-10072] c09 N70-11148

Standard coupling design for mass production
[NASA-CASE-XMS-02532] c15 N70-41808

Method for making screen with unlimited fineness of mesh and screen thickness
[NASA-CASE-XLE-00953] c15 N71-15966

Describing apparatus for manufacturing operations in low and zero gravity environments of orbital space flight
[NASA-CASE-MFS-20410] c15 N71-19214

Manufacture of fluid containers from fused coated polyester sheets having resealable septum
[NASA-CASE-NPO-10123] c15 N71-24835

Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel
[NASA-CASE-XLA-04126] c28 N71-26779

Shielded flat conductor cable fabricated by electroless and electrolytic plating
[NASA-CASE-MFS-13687] c09 N71-28691

Production method for manufacturing porous tungsten bodies from tungsten powder particles
[NASA-CASE-XNP-04339] c17 N71-29137

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[NASA-CASE-GSC-11367-1] c03 N74-19692

Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c15 N74-32917

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[NASA-CASE-LAR-10337-1] c24 N75-30260

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[NASA-CASE-XLE-00301] c14 N70-36808

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[NASA-CASE-XLA-01401] c15 N71-21179

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[NASA-CASE-NPO-11001] c07 N72-21118

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[NASA-CASE-MSC-15442-1] c74 N75-22119

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[NASA-CASE-LAR-10626-1] c14 N74-21015

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[NASA-CASE-MSC-14472-1] c13 N74-32780

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[NASA-CASE-XGS-10518] c16 N71-28554

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[NASA-CASE-NPO-11437] c16 N72-28521

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[NASA-CASE-NPO-13490-1] c36 N75-16827

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[NASA-CASE-XNP-02092] c15 N70-42033

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[NASA-CASE-XGS-04993] c14 N71-17574

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[NASA-CASE-XMS-03371] c05 N70-42000

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[NASA-CASE-LAR-10083-1] c15 N71-27006

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[NASA-CASE-XAC-00073] c14 N70-34813

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[NASA-CASE-XMP-04134] c14 N71-23755

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[NASA-CASE-NPO-10185] c10 N71-26339

Fluid mass sensor --- apparatus and method for measuring fluid mass in weightless condition
[NASA-CASE-MSC-14653-1] c35 N75-13218

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[NASA-CASE-XLE-03157] c28 N71-24736

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[NASA-CASE-MFS-20485] c14 N72-11365

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[NASA-CASE-LAR-10578-1] c12 N73-25262

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[NASA-CASE-LAR-10180-1] c06 N71-13461

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[NASA-CASE-XNP-01056] c14 N71-23041

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[NASA-CASE-ERC-10014] c14 N71-28863

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[NASA-CASE-ERC-10150] c14 N71-28992

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[NASA-CASE-LAR-10766-1] c14 N72-21432

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[NASA-CASE-GSC-10903-1] c14 N73-12444

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[NASA-CASE-XNP-04231] c14 N73-32325

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[NASA-CASE-LAR-11428-1] c14 N74-34857

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[NASA-CASE-GSC-11889-1] c14 N74-32887

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[NASA-CASE-XER-09519] c14 N71-18483

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[NASA-CASE-XLE-0C397] c15 N70-36492

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[NASA-CASE-XFR-0C811] c15 N70-36901

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[NASA-CASE-XMP-01887] c15 N71-10617

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[NASA-CASE-XKS-01985] c15 N71-10782

Method and apparatus for removing plastic insulation from wire using cryogenic equipment
[NASA-CASE-MPS-10340] c15 N71-17628

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[NASA-CASE-XMS-01905] c12 N71-21089

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[NASA-CASE-XMP-05902] c15 N72-11387

Design and characteristics of mechanically extended and telescoping boom on crane assembly
[NASA-CASE-NPO-11118] c03 N72-25021

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[NASA-CASE-LAR-1C961-1] c15 N73-12496

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[NASA-CASE-NPO-11213] c15 N73-20514

Development and characteristics of system for skin packaging articles using thermoplastic film heating and vacuum operated equipment
[NASA-CASE-MPS-20855] c15 N73-27405

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[NASA-CASE-LAR-10841-1] c15 N74-27900

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[NASA-CASE-MSC-12332-1] c15 N72-15476

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[NASA-CASE-KSC-10126] c11 N71-24985

Device for measuring thermoelectric properties of materials under high pressure
[NASA-CASE-NPO-11749] c14 N73-28486

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[NASA-CASE-XLE-02024] c14 N71-22964

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[NASA-CASE-XMS-02930] c11 N71-23042

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[NASA-CASE-XLA-08254] c14 N71-26161

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[NASA-CASE-NPO-10431] c15 N71-29132

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[NASA-CASE-XMS-09690] c33 N72-25913

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[NASA-CASE-MPS-20242] c14 N73-19421

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[NASA-CASE-MPS-20673] c14 N73-20476

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[NASA-CASE-XLA-05099] c09 N73-13209

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[NASA-CASE-XNP-05821] c03 N71-11056

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[NASA-CASE-XMP-05835] c08 N71-12504

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[NASA-CASE-NPO-10821] c03 N71-19545

Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
[NASA-CASE-XNP-01318] c10 N71-23033

Serial digital decoder design with square circuit matrix and serial memory storage units
[NASA-CASE-NPO-10150] c08 N71-24650

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[NASA-CASE-NPO-10591] c03 N72-22041

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[NASA-CASE-XLE-03280] c14 N71-23093

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[NASA-CASE-XKS-03495] c14 N69-39785

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[NASA-CASE-XMP-00447] c14 N70-33179

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[NASA-CASE-XAC-00073] c14 N70-34813

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[NASA-CASE-XNP-01567] c15 N70-41310

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[NASA-CASE-XLE-00821] c25 N71-15650

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[NASA-CASE-XLA-03135] c32 N71-16428

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[NASA-CASE-XMP-04966] c14 N71-17658

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[NASA-CASE-XMS-01618] c14 N71-20741

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[NASA-CASE-XMS-06236] c14 N71-21007

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[NASA-CASE-XMP-10040] c15 N71-22877

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[NASA-CASE-XLA-01791] c14 N71-22991

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[NASA-CASE-XGS-01023] c14 N71-22992

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[NASA-CASE-XMP-10289] c14 N71-23699

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[NASA-CASE-XAC-04885] c14 N71-23790

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[NASA-CASE-XMP-04415] c14 N71-24693

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[NASA-CASE-XMP-02966] c10 N71-24863

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[NASA-CASE-ERC-10088] c26 N71-25490

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 [NASA-CASE-LAR-10098] c32 N71-26681
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 [NASA-CASE-MFS-20261] c14 N71-27005
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 [NASA-CASE-GSC-10503-1] c14 N72-20381
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 [NASA-CASE-GSC-10218-1] c15 N72-21465
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 [NASA-CASE-MFS-21629] c14 N72-22442
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 [NASA-CASE-ERC-10412-1] c09 N73-12211
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 [NASA-CASE-LAR-10855-1] c14 N73-13415
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 [NASA-CASE-MFS-20242] c14 N73-19421
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 [NASA-CASE-NPO-10985] c14 N73-20478
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 [NASA-CASE-NPO-11291-1] c14 N73-30388
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 [NASA-CASE-FRC-10051-1] c14 N74-13129
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 [NASA-CASE-NPO-10617-1] c14 N74-22095
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 [NASA-CASE-MSC-13999-1] c05 N74-26626
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 [NASA-CASE-MFS-21728-1] c14 N74-27865
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 [NASA-CASE-LAR-10806-1] c14 N74-32877
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 [NASA-CASE-GSC-11902-1] c35 N75-22687
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 [NASA-CASE-XMS-05731] c35 N75-29382
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 [NASA-CASE-XAC-06956] c15 N71-21177
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 [NASA-CASE-XLA-01401] c15 N71-21179
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 [NASA-CASE-XGS-02422] c15 N71-21529
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 [NASA-CASE-XNP-02341] c15 N71-21531
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 [NASA-CASE-XMS-07487] c15 N71-23255
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 [NASA-CASE-XLE-05033] c15 N71-23810
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[NASA-CASE-XNP-08897] c15 N71-17694

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[NASA-CASE-MFS-12805] c15 N71-17805

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[NASA-CASE-XMP-07069] c15 N71-23815

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[NASA-CASE-HQN-10541-2] c15 N71-27135

Zero power telemetry actuated switch for biomedical equipment
[NASA-CASE-ARC-10105] c09 N72-17153

Multichannel medical monitoring system to measure physiological parameters from display device at remote control station
[NASA-CASE-MSC-14180-1] c05 N73-22045

Tilting table for testing human body in variety of positions while exercising on ergometer or other biomedical devices
[NASA-CASE-MFS-21010-1] c05 N73-30078

Automatic device for assaying urine on bacterial adenosine triphosphate content
[NASA-CASE-GSC-11169-2] c05 N73-32011

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c35 N75-18536

Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c35 N75-25123

Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c54 N75-27761

MEMBRANE STRUCTURES

Liquid junction for glass electrode or pH meters
[NASA-CASE-NPO-10682] c15 N70-34699

Expulsion and measuring device for determining quantity of liquid in tank under conditions of weightlessness
[NASA-CASE-XMS-01546] c14 N70-40233

Flexible composite membrane structure impervious to extremely reactive chemicals in rocket propellants
[NASA-CASE-XNP-08837] c18 N71-16210

Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for

spacecraft walls and pumping liquid propellants
[NASA-CASE-INP-08881] c17 N71-28747

Spaceflight meteoroid composition experiment ---
characteristics of device for capturing
meteoroid particles in space
[NASA-CASE-MSC-12423-1] c14 N74-32885

MEMBRANES

Apparatus for measuring polymer membrane
expansion in electrochemical cells
[NASA-CASE-XGS-03865] c14 N69-21363

Separation cell with permeable membranes for
fluid mixture component separation
[NASA-CASE-XMS-02952] c18 N71-20742

Water insoluble, cationic permselective membrane
[NASA-CASE-NPO-11091] c18 N72-22567

MEMORY

Method for making conductors for ferrite memory
arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c24 N75-13032

MERCURY (METAL)

Interrupter switching device utilizing
electrodes and mercury filled capillary tubes
in which current flow vaporizes mercury as
circuit breaker
[NASA-CASE-XNP-02251] c12 N71-20896

Method of forming ceramic to metal seals
impervious to gaseous and liquid mercury at
high temperature
[NASA-CASE-XNP-01263-2] c15 N71-26312

Development of system for delivering vaporized
mercury to electron bombardment ion engine
[NASA-CASE-NPO-10737] c28 N72-11709

MERCURY VAPOR

Interrupter switching device utilizing
electrodes and mercury filled capillary tubes
in which current flow vaporizes mercury as
circuit breaker
[NASA-CASE-XNP-02251] c12 N71-20896

Liquid-vapor interface seal design for turbine
rotating shafts including helical and
molecular pumps and liquid cooling of mercury
vapor
[NASA-CASE-XNP-02862-1] c15 N71-26294

METABOLISM

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c25 N75-12086

METAL BONDING

Bonding method for improving contact between
lead telluride thermoelectric elements and
tungsten electrodes
[NASA-CASE-XGS-04554] c15 N69-39786

Plasma spraying gun for forming diffusion bonded
metal or ceramic coatings on substrates
[NASA-CASE-XLE-01604-2] c15 N71-15610

Describing metal valve pintle with encapsulated
elastomeric body
[NASA-CASE-MSC-12116-1] c15 N71-17648

Apparatus for determining quality of bond
between high density material and low density
material
[NASA-CASE-MFS-13686] c15 N71-18132

Metal soldering with hydrazine monoperfluoro
alkanoate for corrosion resistant coatings
[NASA-CASE-XNP-03459] c15 N71-21078

Leak resistant bonded elastomeric seal for
secondary electrochemical cells
[NASA-CASE-XGS-02631] c03 N71-23006

Metal pattern bonding technique for cover glass
attachment to silicon solar cells for space
applications
[NASA-CASE-XLE-08569] c03 N71-23449

Development of electrical system for indicating
optimum contact between electrode and metal
surface to permit improved soldering operation
[NASA-CASE-KSC-10242] c15 N72-23497

Development of process for bonding resinous body
in cavities of honeycomb structures
[NASA-CASE-MSC-12357] c15 N73-12489

Electric resistance spot welding and brazing for
producing metal bonds with superior mechanical
and structural characteristics
[NASA-CASE-LAR-11072-1] c15 N73-20535

Totally confined explosive welding --- apparatus
to reduce noise level and protect personnel
during explosive bonding
[NASA-CASE-LAR-10941-1] c15 N74-21057

Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c37 N75-25185

METAL COATINGS

Joining aluminum to stainless steel by bonding
aluminum coatings onto titanium coated
stainless steel and brazing aluminum to
aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443

Metal soldering with hydrazine monoperfluoro
alkanoate for corrosion resistant coatings
[NASA-CASE-XNP-03459] c15 N71-21078

Low concentration alkaline solution treatment of
aluminum with metal phosphate surface coatings
to improve chemical bonding and reduce coating
weight
[NASA-CASE-XLA-01995] c18 N71-23047

Organometallic compounds of niobium and tantalum
useful for film deposition
[NASA-CASE-XNP-04023] c06 N71-28808

Silicide coating process and composition for
protection of refractory metals from oxidation
[NASA-CASE-XLE-10910] c18 N71-29040

Selective nickel deposition on irradiation
sensitive compounds
[NASA-CASE-LEW-10965-1] c15 N72-25452

Development and characteristics of device for
applying multiple layers of noble metal to
glass substrate for protection of optical
surfaces
[NASA-CASE-LAR-10362-1] c15 N72-27486

Silicon carbide backward diode with coated lead
attachment
[NASA-CASE-ERC-10224-2] c09 N73-27150

Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c18 N74-10542

A panel for selectively absorbing solar thermal
energy and the method for manufacturing the
panel
[NASA-CASE-MFS-22562-1] c03 N74-19700

Solar cell assembly
[NASA-CASE-LEW-11549-1] c03 N74-33484

METAL CUTTING

Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c15 N73-30460

Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c14 N74-13131

Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c37 N75-25186

METAL FIBERS

Lightweight electrically powered flexible
thermal laminate --- made of metal fibers
[NASA-CASE-MSC-12662-1] c24 N75-16635

METAL FILMS

Means and methods of depositing thin films on
substrates
[NASA-CASE-XNP-00595] c15 N70-34967

Metallic film diffusion into metal or ceramic
surfaces for boundary lubrication in aerospace
environments
[NASA-CASE-XLE-01765] c18 N71-10772

Bismuth and lead surface coatings for gas
bearings in aerospace engineering
[NASA-CASE-XGS-02011] c15 N71-20739

Metallic film diffusion for boundary lubrication
in aerospace engineering
[NASA-CASE-XLE-10337] c15 N71-24046

Magnetic recording head composed of ferrite core
coated with thin film of aluminum-iron-silicon
alloy
[NASA-CASE-GSC-10097-1] c08 N71-27210

Thin absorbing metallic film for increased
visible light transmission
[NASA-CASE-LAR-10836-1] c26 N72-27784

Deposition of alloy films --- on irregularly
shaped metal object
[NASA-CASE-LEW-11262-1] c18 N74-13270

Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c37 N75-19684

METAL FINISHING

Selective plating of etched circuits without
removing previous plating
[NASA-CASE-XGS-03120] c15 N71-24047

Surface finishing --- particularly for use in
smoothing irregularities on aluminum aircraft
wings
[NASA-CASE-MSC-12631-1] c02 N75-23476

METAL FOILS

Characteristics of device for folding thin
flexible sheets into compact configuration
[NASA-CASE-XLA-00137] c15 N70-33180

- Passive thermal control coating on aluminum foil laminate for inflatable spacecraft surfaces
[NASA-CASE-XLA-01291] c33 N70-36617
- Development and characteristics of thermal radiation shielding of refractory metal foil used for induction furnace
[NASA-CASE-XLE-03432] c33 N71-24145
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c03 N74-19692
- Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c14 N74-30894
- Insulation foil and method of making
[NASA-CASE-LEW-11484-2] c24 N75-14839
- METAL FUELS**
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c27 N74-33209
- METAL HALIDES**
Double discharge metal vapor laser with metal halide as a lasing agent
[NASA-CASE-NPO-13448-1] c16 N74-34012
- Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c25 N75-13053
- METAL IONS**
Chemical synthesis of thermally stable organometallic polymers with divalent metal ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQN-10364] c06 N71-27363
- METAL JOINTS**
Leakproof soft metal seal for use in very high vacuum systems operating at cryogenic temperatures
[NASA-CASE-XGS-02441] c15 N70-41629
- METAL MATRIX COMPOSITES**
High strength reinforced metallic composites for applications over wide temperature range
[NASA-CASE-XLE-02428] c17 N70-33288
- Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
- Self lubricating gears and other mechanical parts having surface adapted to frictional contact
[NASA-CASE-MFS-14971] c15 N71-24984
- Development of procedure for improved distribution of refractory compounds and micro-constituents in refractory metal matrix
[NASA-CASE-XLE-03940-2] c17 N72-28536
- A heat exchanger and method of making
[NASA-CASE-LEW-12441-1] c34 N75-19580
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c24 N75-28135
- METAL OXIDE SEMICONDUCTORS**
Gyrator circuit using MOS field effect transistors
[NASA-CASE-MFS-21433] c09 N73-20232
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c24 N74-20329
- Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c09 N74-34638
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c76 N75-25730
- METAL OXIDES**
Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
- Photofabrication techniques for selective removal of conductive metals oxide coatings from nonconductive substrates
[NASA-CASE-ERC-10108] c06 N72-21094
- Producing metal powders of controlled particle size by reducing oxide using reactive metal vapor in vacuum
[NASA-CASE-XLE-06461] c17 N72-22530
- Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c13 N74-13011
- METAL PARTICLES**
Magnetohydrodynamic generator for mixing nonconductive gas and liquid metal mist to form slugs
[NASA-CASE-XLE-02083] c03 N69-39983
- Cermet for nuclear fuel constructed by pressing metal coated ceramic particles in die at temperature to cause bonding of metal coatings, and tested for thermal stability
[NASA-CASE-LEW-10219-1] c18 N71-28729
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c27 N74-33209
- METAL PLATES**
Development of large area micrometeoroid impact detector panels
[NASA-CASE-XLA-05906] c31 N71-16221
- Tungsten-coated tungsten-uranium dioxide nuclear fuel plates
[NASA-CASE-XLE-00209] c22 N73-32528
- Strain arrestor plate --- bonding rigid thermal insulation tiles to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c18 N74-15213
- METAL POWDER**
Production of refractory bodies with controlled porosity by pressing and heating mixtures of refractory and inert metal powders
[NASA-CASE-LEW-10393-1] c17 N71-15468
- Electrode sealing and insulation for fuel cells containing caustic liquid electrolytes using powdered plastic and metal
[NASA-CASE-XMS-01625] c15 N71-23022
- Apparatus for mechanically dispersing ultrafine metal powders subjected to shock waves
[NASA-CASE-XLE-04946] c17 N71-24911
- Method to produce high purity copper fluoride by heating copper hydroxyfluoride powder and subjecting to flowing fluorine gas
[NASA-CASE-LEW-10794-1] c06 N72-17093
- Producing metal powders of controlled particle size by reducing oxide using reactive metal vapor in vacuum
[NASA-CASE-XLE-06461] c17 N72-22530
- Development of apparatus for producing metal powder particles of controlled size
[NASA-CASE-XLE-06461-2] c17 N72-28535
- Metal plating process employing spraying of metallic power/peening particle mixture
[NASA-CASE-GSC-11163-1] c15 N73-32360
- METAL SHEETS**
Fatigue testing apparatus with light shield and infrared reflector for high temperature evaluation of loaded sheet samples
[NASA-CASE-XLA-01782] c14 N71-26136
- Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c15 N74-11301
- Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c37 N75-12326
- Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c37 N75-26371
- Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c37 N75-27376
- METAL SHELLS**
A heat exchanger and method of making
[NASA-CASE-LEW-12441-1] c34 N75-19580
- METAL SPINNING**
Apparatus and method for spin forming tubular elbows with high strength, uniform thickness, and close tolerances
[NASA-CASE-XMP-01083] c15 N71-22723
- METAL STRIPS**
Metal ribbon wrapped outer wall for regeneratively cooled combustion chamber
[NASA-CASE-XLE-00164] c15 N70-36411
- Metal strip mounting arrangement for solar cell arrays on spacecraft
[NASA-CASE-XGS-01475] c03 N71-11058
- Forming tubes from long thin flat metal strips
[NASA-CASE-XGS-04175] c15 N71-18579
- High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ABC-10516-1] c23 N74-21300
- METAL SURFACES**
Condenser-separator for dehumidifying air utilizing sintered metal surface
[NASA-CASE-XLA-08645] c15 N69-21465
- Nickel plating onto etched aluminum castings
[NASA-CASE-XNP-04148] c17 N71-24830

- High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875
- Method for treating metal surfaces to prevent secondary electron transmission
[NASA-CASE-XNP-05469] c24 N71-25555
- Method of forming ceramic to metal seals impervious to gaseous and liquid mercury at high temperature
[NASA-CASE-XNP-01263-2] c15 N71-26312
- Anodizing method for providing metal surfaces with temperature reducing coatings against flames
[NASA-CASE-XLE-00035] c33 N71-29151
- Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c14 N74-22095
- METAL VAPORES**
- Magnetohydrodynamic generator for mixing nonconductive gas and liquid metal mist to form slugs
[NASA-CASE-XLE-02083] c03 N69-39983
- Apparatus for producing hydrocarbon slurry containing small particles of magnesium for use as jet aircraft fuel
[NASA-CASE-XLE-00010] c15 N70-33382
- Double discharge metal vapor laser with metal halide as a lasart
[NASA-CASE-NPO-13448-1] c16 N74-34012
- Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c36 N75-32441
- METAL WORKING**
- Controlled arc spot welding method
[NASA-CASE-XMF-00392] c15 N70-34814
- Method and apparatus for shaping and joining large diameter metal tubes using magnetomotive forces
[NASA-CASE-XMF-05114] c15 N71-17650
- Description of protective device for providing safe operating conditions around work piece in machine or metal working tool
[NASA-CASE-XLE-01092] c15 N71-22797
- Description of portable milling tool for milling tube or pipe ends to desired shape and thickness
[NASA-CASE-XMF-03511] c15 N71-22799
- Development and characteristics of frusto-conical die nib for extrusion of refractory metals
[NASA-CASE-XLE-06773] c15 N71-23817
- Portable magnetomotive hammer for metal working
[NASA-CASE-XMF-03793] c15 N71-24833
- Method and apparatus for portable high precision magnetomotive bulging, constricting, and joining of large diameter metal tubes
[NASA-CASE-XMF-05114-3] c15 N71-24865
- Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c15 N74-22147
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c15 N74-25968
- METAL-METAL BONDING**
- Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443
- Method for honeycomb panel bonding by thermosetting film adhesive with electrical heat means
[NASA-CASE-XMF-01402] c18 N71-21651
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-2] c15 N74-34002
- METALLOGRAPHY**
- Development of method for etching copper
[NASA-CASE-XGS-06306] c17 N71-16044
- METALLOSILOXANE POLYMER**
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c15 N74-21058
- METALLURGY**
- Induction heating of metallurgical specimens to high temperatures in coil furnace
[NASA-CASE-XLE-04026] c14 N71-23267
- METALS**
- Transpiration cooled turbine blade made from metallic or ceramic wires
[NASA-CASE-XLE-00020] c15 N70-33226
- Self lubricating fluoride-metal composite materials for outer space applications
[NASA-CASE-XLE-08511] c18 N71-23710
- Punch and die device for forming convolution series in thin gage metal hemispheres
[NASA-CASE-XNP-05297] c15 N71-23811
- Device for bending metal ribbon or wire
[NASA-CASE-XLA-05966] c15 N72-12408
- Development of performed attachable thermocouple from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c14 N72-28443
- Metal plating process employing spraying of metallic power/peening particle mixture
[NASA-CASE-GSC-11163-1] c15 N73-32360
- Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c15 N74-21063
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c15 N74-23065
- Production of pure metals
[NASA-CASE-LEW-10906-1] c06 N74-30502
- METEORITE COLLISIONS**
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c14 N74-13130
- METEORITES**
- Method for making pressurized meteoroid penetration detector panels
[NASA-CASE-XLA-08916] c15 N71-29018
- METEORITIC DAMAGE**
- Capacitor sandwich structure containing metal sheets of known thickness for counting penetration rates of meteoroids
[NASA-CASE-XLE-01246] c14 N71-10797
- METEOROID HAZARDS**
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c35 N75-33367
- METEOROID PROTECTION**
- Development and characteristics of protective coatings for spacecraft
[NASA-CASE-XNP-02507] c31 N71-17679
- Development of composite structures for spacecraft to serve as anti-meteoroid device
[NASA-CASE-LAR-10788-1] c31 N73-20880
- METEOROIDS**
- Cameras for photographing meteors in selected sky area
[NASA-CASE-LAR-10226-1] c14 N73-19419
- Spaceflight meteoroid composition experiment --- characteristics of device for capturing meteoroid particles in space
[NASA-CASE-MSC-12423-1] c14 N74-32885
- METEOROLOGICAL BALLOONS**
- Aerodynamically stable meteorological balloon using surface roughness effect
[NASA-CASE-XMF-04163] c02 N71-23007
- METHANE**
- High temperature gas lubricant consisting of two fluoro-bromo-methanes
[NASA-CASE-XLE-00353] c18 N70-39897
- NICHOLSON INTERFEROMETERS**
- Nicholson interferometer with photodetector for optical direction sensing
[NASA-CASE-NPO-10320] c14 N71-17655
- Servo system for retroreflector of Nicholson interferometer
[NASA-CASE-NPO-10300] c14 N71-17662
- Computerized optical system for producing multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661
- MICROBALANCES**
- Null-type vacuum microbalance for measuring minute mechanical displacements
[NASA-CASE-XAC-00472] c15 N70-40180
- MICROBIOLOGY**
- Development of variable angle device for positioning test tubes to permit optimum drying of culture medium
[NASA-CASE-LAR-10507-1] c11 N72-25284
- Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c35 N75-12272

- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c51 N75-13502
- Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c35 N75-27330
- MICROELECTRONICS**
- Separation of semiconductor wafer into chips bounded by scribe lines
[NASA-CASE-ERC-10138] c26 N71-14354
- Vibrophonocardiograph comprising low weight and small volume piezoelectric microphone with amplifier having high input impedance for high sensitivity and low frequency response
[NASA-CASE-XPR-07172] c05 N71-27234
- Electrical connections for thin film hybrid microcircuits
[NASA-CASE-XMS-02182] c10 N71-28783
- Method for coating through-holes in ceramic substrates used in fabricating miniaturized electronic circuits
[NASA-CASE-XMP-05999] c15 N71-29032
- Precision surface cutter for screen circuit negatives and other microcircuits
[NASA-CASE-XLA-09843] c15 N72-27485
- Material compositions and processes for developing dielectric thick films used in microcircuit capacitors
[NASA-CASE-LAR-10294-1] c26 N72-28762
- Active tuned circuits for microelectronic construction
[NASA-CASE-GSC-11340-1] c10 N72-33230
- MICROFILES**
- Apparatus for semiautomatic inspection of microfilmed documents for density, resolution, size, and position
[NASA-CASE-MPS-20240] c14 N71-26788
- MICROMETEORITES**
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c14 N74-13130
- MICROMETEOROIDS**
- Particle detector for measuring micrometeoroid velocity in space
[NASA-CASE-XLA-0C495] c14 N70-41332
- Piezoelectric transducer for detecting and measuring micrometeoroids
[NASA-CASE-XAC-01101] c14 N70-41957
- Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996
- Development of large area micrometeoroid impact detector panels
[NASA-CASE-XLA-05906] c31 N71-16221
- Rotary bead dropper and selector for testing micrometeorite transducers
[NASA-CASE-XGS-03304] c09 N71-22988
- Measuring micrometeoroid depth of penetration into various materials
[NASA-CASE-XLA-0C941] c14 N71-23240
- Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits
[NASA-CASE-HSC-12109] c18 N71-26285
- Cosmic dust analyzer using ion time of flight techniques to determine constituency of hypervelocity particles such as micrometeoroids
[NASA-CASE-HSC-13802-1] c30 N72-20805
- Micrometeoroid analyzer using arrays of interconnected capacitors and ion detector
[NASA-CASE-ARC-10443-1] c14 N73-20477
- Cold cathode discharge tube with pressurized gas cell for meteoroid detection in space
[NASA-CASE-LAR-10483-1] c14 N73-33237
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c15 N74-21062
- Spaceflight meteoroid composition experiment --- characteristics of device for capturing meteoroid particles in space
[NASA-CASE-HSC-12423-1] c14 N74-32885
- Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c14 N74-32888
- MICROMINIATURIZATION**
- Miniaturized radiometer for detecting low level thermal radiation
[NASA-CASE-XLA-04556] c14 N69-27484
- MICROORGANISMS**
- Development of bacteriostatic conformal coating and methods of application
[NASA-CASE-GSC-10007] c18 N71-16046
- Portable vacuum probe surface sampler for sampling large surface areas with relatively light loading densities of microorganisms
[NASA-CASE-LAR-10623-1] c14 N73-30395
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c35 N75-33368
- MICROPARTICLES**
- Micropacked column for rapid chromatographic analysis using low gas flow rates
[NASA-CASE-XNP-04816] c06 N69-39936
- MICROPHONES**
- Audio signal processing system for noise surge elimination at low amplitude audio input
[NASA-CASE-MSC-12223-1] c07 N71-26181
- Vibrophonocardiograph comprising low weight and small volume piezoelectric microphone with amplifier having high input impedance for high sensitivity and low frequency response
[NASA-CASE-XPR-07172] c05 N71-27234
- Development of wind tunnel microphone structure to minimize effects of vibrations and eliminate unwanted signals in microphone output
[NASA-CASE-XNP-00250] c11 N71-28779
- Adjustable frequency response microphone
[NASA-CASE-LAR-11170-1] c07 N74-12843
- MICROSCOPES**
- Absolute focus locking device for microscopes to maintain set focus for extended time period
[NASA-CASE-LAR-10184] c14 N72-22445
- Hand-held, lightweight, portable photomicroscope
[NASA-CASE-ARC-10468-1] c14 N73-33361
- MICROSTRUCTURE**
- Production of high strength refractory compounds and microconstituents into refractory metal matrix
[NASA-CASE-XLE-03940] c18 N71-26153
- Development of procedure for improved distribution of refractory compounds and microconstituents in refractory metal matrix
[NASA-CASE-XLE-03940-2] c17 N72-28536
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c15 N74-21055
- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MPS-21931-1] c37 N75-26372
- MICROTHRUST**
- Electrostatic microthrust propulsion system with annular slit colloid thruster
[NASA-CASE-GSC-10709-1] c28 N71-25213
- Heated porous plug microthruster for spacecraft reaction jet controlled systems such as fuel flow regulation, propellant disassociation, and heat transfer augmentation
[NASA-CASE-GSC-10640-1] c28 N72-18766
- MICROWAVE AMPLIFIERS**
- Thermally sensitive tuning probe for nullifying detuning effects in microwave cavity resonator of amplifier
[NASA-CASE-XNP-00449] c14 N70-35220
- MICROWAVE ANTENNAS**
- Microwave power receiving antenna solving heat dissipation problems by construction of elements as heat pipe devices
[NASA-CASE-MPS-20333] c09 N71-13486
- Development and characteristics of low-noise multimode monopulse antenna feed system for use with microwave communication equipment
[NASA-CASE-XNP-01735] c07 N71-22750
- Microwave omnidirectional antenna for use on spacecraft
[NASA-CASE-XLA-03114] c09 N71-22888
- Portable equipment for validating C band launch pad antennas and transmission lines used for spacecraft checkout
[NASA-CASE-XKS-10543] c07 N71-26292
- Multipurpose microwave antenna, employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c07 N72-25174
- Omnidirectional antenna array with circumferential slots for mounting on cylindrical space vehicle

- [NASA-CASE-LAR-10163-1] c09 N72-25247
Characteristics of microwave antenna with
conical reflectors to generate plane wave front
[NASA-CASE-NPO-11661] c07 N73-14130
- MICROWAVE CIRCUITS**
Quasi-optical microwave circuit with dielectric
body for use with oversize waveguides
[NASA-CASE-ERC-10011] c07 N71-29065
- MICROWAVE COUPLING**
Microwave waveguide switch with rotor position
control
[NASA-CASE-XNP-06507] c09 N71-23548
- MICROWAVE EQUIPMENT**
Apparatus for generating microwave signals at
progressively related phase angles for driving
antenna array
[NASA-CASE-ERC-10046] c10 N71-18722
Broadband microwave waveguide window to
compensate dielectric material filling
[NASA-CASE-XNP-08880] c09 N71-24808
Dual frequency feed systems for Cassegrainian
antennas
[NASA-CASE-NPO-13091-1] c09 N73-12214
Resonant waveguide stark cell --- using
microwave spectrometers
[NASA-CASE-LAR-11352-1] c33 N75-26245
Refrigerated coaxial coupling --- for microwave
equipment
[NASA-CASE-NPO-13504-1] c33 N75-30430
- MICROWAVE FILTERS**
Microwave power divider for providing variable
output power to output waveguide in fixed
waveguide system
[NASA-CASE-NPO-11031] c07 N71-33606
Selective bandpass resonators using bandstop
resonator pairs for microwave frequency
operation
[NASA-CASE-GSC-10990-1] c09 N73-26195
- MICROWAVE FREQUENCIES**
Varactor microwave frequency mixing circuit
[NASA-CASE-XGS-02171] c09 N69-24324
Voltage tunable Gunn effect semiconductor for
microwave generation
[NASA-CASE-XER-07894] c09 N71-18721
Multimode antenna feed system for microwave and
broadband communication
[NASA-CASE-GSC-11046-1] c07 N73-28013
- MICROWAVE OSCILLATORS**
Microwave generator using Gunn effect for
magnetic tuning
[NASA-CASE-NPO-12106] c09 N73-15235
Electron beam controller --- using magnetic
field to refocus spent electron beam in
microwave oscillator tube
[NASA-CASE-LEW-11617-1] c09 N74-10195
- MICROWAVE RADIOMETERS**
Input radio frequency circuit for switching type
absolute temperature measuring radiometer for
noise sources
[NASA-CASE-ERC-11020] c14 N71-26774
- MICROWAVE REFLECTOMETERS**
Reflectometer for receiver input impedance match
measurement
[NASA-CASE-XNP-10843] c07 N71-11267
Surface defect detection by reflected microwave
radiation pattern
[NASA-CASE-ARC-16009-1] c15 N71-17822
- MICROWAVE RESONANCE**
Microwave double resonance spectroscopy
absorption cell for gas analysis
[NASA-CASE-LAR-10305] c14 N71-26137
- MICROWAVE SWITCHING**
Design of gyrator circuit using operational
amplifiers to replace ungrounded inductors
[NASA-CASE-XAC-16608-1] c09 N71-12517
- MICROWAVE TUBES**
Electrostatic charged particle collector
containing stacked electrodes for microwave tube
[NASA-CASE-LEW-11192-1] c09 N73-13208
- MICROWAVES**
Radio frequency noise generator having microwave
slow-wave structure in gas discharge plasma
[NASA-CASE-XER-11019] c09 N71-23598
Method and apparatus for optically modulating
light or microwave beam
[NASA-CASE-GSC-10216-1] c23 N71-26722
Microwave waveguide mixer
[NASA-CASE-ERC-10179] c07 N72-20141
- Microwave power transmission system wherein
level of transmitted power is controlled by
reflections from receiver
[NASA-CASE-NPS-21470-1] c10 N74-19870
- MIDAIR COLLISIONS**
Economical satellite aided vehicle avoidance
system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631
Development and characteristics of electronic
signalling system and data processing
equipment for warning systems to avoid midair
collisions between aircraft
[NASA-CASE-LAR-10717-1] c21 N73-30641
- MILLIMETER WAVES**
Millimeter wave antenna system for spacecraft use
[NASA-CASE-GSC-10949-1] c07 N71-28965
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c09 N74-32660
- MILLING (MACHINING)**
Rotary spindle lathe attachments for machining
geometrical cones
[NASA-CASE-XMS-04292] c15 N71-22722
- MILLING MACHINES**
Electro-optical system for maintaining two-axis
alignment during milling operations on large
tank-sections
[NASA-CASE-XMP-00908] c14 N70-40238
Description of portable milling tool for milling
tube or pipe ends to desired shape and thickness
[NASA-CASE-XNP-03511] c15 N71-22799
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c15 N74-27905
- MINIATURE ELECTRONIC EQUIPMENT**
Miniature solid state, direction sensitive,
stress transducer design with bonded
semiconductive piezoresistive element for
sensing residual stresses
[NASA-CASE-XNP-02983] c14 N71-21091
Transducer circuit design with single coaxial
cable for input and output connections
including incorporation into miniaturized
catheter transducer
[NASA-CASE-ABC-10132-1] c09 N71-24597
Solid state television camera system consisting
of monolithic semiconductor mosaic sensor and
molecular digital readout systems
[NASA-CASE-XMP-06092] c07 N71-24612
Ingestible miniaturized telemetry device for
deep body temperature measurements on humans
and animals
[NASA-CASE-ABC-10583-1] c05 N73-14093
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c54 N75-17102
- MINIATURIZATION**
Miniature vibration isolator utilizing elastic
tubing material
[NASA-CASE-XLA-01019] c15 N70-40156
Computer circuit performing both counting and
shifting logic operations also capable of
miniaturization and integration in basic
circuits
[NASA-CASE-XNP-01753] c08 N71-22897
Fast response miniature carbon dioxide detector
with no moving parts for measuring
concentration in any atmosphere
[NASA-CASE-MSC-13332-1] c14 N72-21408
- MIRRORS**
Pneumatic control of telescopic mirror support
system
[NASA-CASE-XLA-03271] c11 N69-24321
Oscillatory electromagnetic mirror drive system
for horizon scanners
[NASA-CASE-XLA-03724] c14 N69-27461
Servo system for retroreflector of Michelson
interferometer
[NASA-CASE-NPO-10300] c14 N71-17662
Gas laser frequency stabilized by position of
mirrors in resonant cavity
[NASA-CASE-XGS-03644] c16 N71-18614
Highly stable optical mirror assembly optimizing
image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
Adjustable rigid mount for trihedral mirror
formed of alloy with small coefficient of
thermal expansion supporting screws and
spring-biased plates
[NASA-CASE-XNP-08907] c23 N71-29123
Optical range finder using reflective first
surfaces mirror and transmitting beam splitter

- [NASA-CASE-MSC-12105-1] c14 N72-21409
Optical mirror support system
[NASA-CASE-XER-07896-2] c23 N72-22673
Space mirrors
[NASA-CASE-MSC-12611-1] c23 N74-33142
Strain gauge ambiguity sensor for segmented
mirror active optical system
[NASA-CASE-MFS-20506-1] c35 N75-12273
- MISSILE CONTROL**
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c09 N74-20864
- MISSILE LAUNCHERS**
Launch pad missile release system with bending
moment change rate reduction in thrust
distribution structure at liftoff
[NASA-CASE-XMF-03198] c30 N70-40353
Optical monitor panel consisting of translucent
screen with test or meter information
projected onto it from rear for application in
control rooms of missile launching and
tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175
Controlled release device for use in launching
rockets or missiles
[NASA-CASE-XKS-03338] c15 N71-24043
- MIXERS**
Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c15 N74-26989
- MIXING CIRCUITS**
Varactor microwave frequency mixing circuit
[NASA-CASE-XGS-02171] c09 N69-24324
Microwave waveguide mixer
[NASA-CASE-ERC-10179] c07 N72-20141
- MOBILITY**
Traveling wave solid state amplifier utilizing a
semiconductor with negative differential
mobility
[NASA-CASE-HQN-10069] c33 N75-27251
- MODE TRANSFORMERS**
Silicon controlled rectifier inverter with
compensation of transients to avoid false gating
[NASA-CASE-XLA-08507] c09 N69-39984
Dual waveguide mode source for controlling
amplitudes of two modes
[NASA-CASE-XNP-03134] c07 N71-10676
- MODULATION**
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c09 N74-17930
- MODULATORS**
Fabry-Perot interferometer retrodirective
reflector modulator for optical communication
[NASA-CASE-XGS-04480] c16 N69-27491
Optical retrodirective modulator with focus
spoiling reflector driven by modulation signal
[NASA-CASE-GSC-10062] c14 N71-15605
Calibrator for measuring and modulating or
demodulating laser outputs
[NASA-CASE-XLA-03410] c16 N71-25914
Full wave modulator-demodulator amplifier
apparatus --- for generating rectified output
signal
[NASA-CASE-FRC-10072-1] c09 N74-14939
Apparatus for simulating optical transmission
links
[NASA-CASE-GSC-11877-1] c07 N74-30532
- MODULES**
Biorthogonal encoder with modular design
[NASA-CASE-NPO-10629] c08 N72-18184
- MOISTURE**
Gas purged dry box glove reducing permeation of
air or moisture into dry box or isolator by
diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080
- MOISTURE METERS**
Method of evaluating moisture barrier properties
of materials used in electronics encapsulation
[NASA-CASE-NPO-10051] c18 N71-24934
- MOLDING MATERIALS**
Vacuum method for molding thermosetting
compounds used as ablative materials
[NASA-CASE-XLA-01091] c15 N71-10672
Method of making mlded electric connector for
use with flat conductor cables
[NASA-CASE-XMF-03498] c15 N71-15986
Hydraulic apparatus for casting and molding of
liquid polymers
[NASA-CASE-XNP-07659] c06 N71-22975
Cold metal hydroforming techniques using epoxy
molds for counteracting creep or stretch
- [NASA-CASE-XLE-05641-1] c15 N71-26346
Holding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c15 N74-13177
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c15 N74-14133
- MOLDS**
Forming mold for polishing and machining curved
solar magnesium reflector with reinforcing ribs
[NASA-CASE-XLE-08917-2] c15 N71-24836
Using molds for fabricating individual fluid
circuit components
[NASA-CASE-XLA-07829] c15 N72-16329
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c15 N74-14133
Method of making an apertured casting
[NASA-CASE-LEW-11169-1] c15 N74-18131
Molding apparatus --- for thermosetting plastic
compositions
[NASA-CASE-LAR-10489-2] c15 N74-32920
Evacuated, displacement compression mold --- of
tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c31 N75-13111
- MOLECULAR BEAMS**
Selector mechanism for mechanical separation and
discrimination of high velocity molecular
particles
[NASA-CASE-XLE-01533] c11 N71-10777
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c28 N74-31269
- MOLECULAR GASES**
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c15 N74-15127
- MOLECULAR PUMPS**
Omnidirectional anisotropic molecular trap, used
with vacuum pump to simulate space
environments for testing spacecraft components
[NASA-CASE-XGS-00783] c30 N71-17788
Liquid-vapor interface seal design for turbine
rotating shafts including helical and
molecular pumps and liquid cooling of mercury
vapor
[NASA-CASE-XNP-02862-1] c15 N71-26294
- MOLECULAR ROTATION**
Diatomic infrared gasdynamic laser --- for
producing different wavelengths
[NASA-CASE-ARC-10370-1] c36 N75-31426
- MOLECULAR SPECTROSCOPY**
Microwave double resonance spectroscopy
absorption cell for gas analysis
[NASA-CASE-LAR-10305] c14 N71-26137
- MOLECULES**
Atomic standard with variable storage volume ---
in cylindrical, flexible bellows
[NASA-CASE-GSC-11895-1] c15 N74-33997
- MOLTEN SALT ELECTROLYTES**
Operation method for combined electrolysis
device and fuel cell using molten salt to
produce power by thermoelectric regeneration
mechanism
[NASA-CASE-XLE-01645] c03 N71-20904
- MOLYBDENUM CARBIDES**
Flame or plasma spraying for molybdenum coating
of carbon or graphite surfaces to prevent
oxidative corrosion
[NASA-CASE-XLA-00302] c15 N71-16077
- MOLYBDENUM COMPOUNDS**
Method for producing refractory molybdenum
disilicides
[NASA-CASE-XNS-00370] c17 N71-20941
- MOMENTS OF INERTIA**
Test fixture for measuring moment of inertia of
irregularly shaped body with multiple axes
[NASA-CASE-XGS-01023] c14 N71-22992
- MOMENTUM**
Utilization of momentum devices for forming
attitude control and damping system for
spacecraft
[NASA-CASE-XLA-02551] c21 N71-21708
Momentum-velocity analyzer for measuring minute
space particles
[NASA-CASE-XNS-04201] c14 N71-22990
- MONITORS**
Fluid leakage detection system with automatic
monitoring capability
[NASA-CASE-LAR-10323-1] c12 N71-17573
Monitoring circuit design for sampling circuit
control and reduction of time-bandwidth in
video communication systems
[NASA-CASE-XNP-02791] c07 N71-23026

- Optical monitor panel consisting of translucent screen with test or meter information projected onto it from rear for application in control rooms of missile launching and tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175
- Peak polarity selector for monitoring waveforms
[NASA-CASE-PRC-10010] c10 N71-24862
- Circuit for monitoring power supply by ripple current indication
[NASA-CASE-KSC-10162] c09 N72-11225
- Development of droplet monitoring probe for use in analysis of droplet propagation in mixed-phase fluid stream
[NASA-CASE-NPO-10985] c14 N73-20478
- Multichannel medical monitoring system to measure physiological parameters from display device at remote control station
[NASA-CASE-MSC-14180-1] c05 N73-22045
- Monitoring and recording lightning strokes in predetermined area
[NASA-CASE-KSC-10728-1] c14 N73-32319
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c23 N74-21304
- MONOCHROMATIC RADIATION**
- Method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c25 N72-21693
- Apparatus for producing monochromatic light from continuous plasma source
[NASA-CASE-XNP-04167-2] c25 N72-24753
- MONOCHROMATORS**
- Analytical photoionization mass spectrometer with argon gas filter between light source and monochromator
[NASA-CASE-LAR-10180-1] c06 N71-13461
- Color television system for allowing monochrome television camera to produce color pictures
[NASA-CASE-MSC-12146-1] c07 N72-17109
- MONOMERS**
- Fabrication of polyphenylquinoxaline composite articles by means of in situ polymerization of monomers
[NASA-CASE-LEW-11879-1] c18 N74-20152
- MONOPOLE ANTENNAS**
- Monopole antenna system for maximum omnidirectional efficiency for use on satellites
[NASA-CASE-XLA-00414] c07 N70-38200
- Flexible monopole antenna with broad bandwidth and low voltage standing wave ratio
[NASA-CASE-MSC-12101] c09 N71-18720
- MONOPROPELLANTS**
- Ignition system for monopropellant combustion devices
[NASA-CASE-XNP-00249] c28 N70-38249
- Catalyst bed ignition system for hydrazine propellants
[NASA-CASE-XNP-00876] c28 N70-41311
- MONOPULSE ANTENNAS**
- Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
- Development and characteristics of low-noise multimode monopulse antenna feed system for use with microwave communication equipment
[NASA-CASE-XNP-01735] c07 N71-22750
- Monopulse scanning network for scanning volumetric antenna pattern
[NASA-CASE-GSC-10299-1] c09 N71-24804
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c33 N75-26252
- MONOPULSE RADAR**
- Polarization diversity monopulse tracking receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864
- Monopulse tracking system with antenna array of three radiators for deriving azimuth and elevation indications
[NASA-CASE-XGS-01155] c10 N71-21483
- MONOSTABLE MULTIVIBRATORS**
- Development and characteristics of resettable monostable pulse generator with charge rundown-timing circuit
[NASA-CASE-GSC-11139] c09 N71-27016
- Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
[NASA-CASE-MSC-13492-1] c10 N71-28860
- MOSSBAUER EFFECT**
- Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c14 N74-15091
- Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XNP-05882] c35 N75-27329
- MOTION**
- Quick attach mechanism for moving or stationary wires, ropes, or cables
[NASA-CASE-XPR-05421] c15 N71-22994
- MOTION PICTURES**
- Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c14 N74-17153
- A holographic motion picture camera
[NASA-CASE-MFS-22517-1] c14 N74-33943
- Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c35 N75-27328
- MOTION SIMULATORS**
- Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c09 N75-15662
- MOTION STABILITY**
- Hydraulic drive mechanism for leveling isolation platforms
[NASA-CASE-XMS-03252] c15 N71-10658
- MOTORS**
- Nonmagnetic thermal motor for magnetometer movement
[NASA-CASE-XAR-03786] c09 N69-21313
- System for maintaining motor at predetermined speed using digital pulses
[NASA-CASE-XNP-06892] c09 N71-24805
- Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c44 N75-27561
- MOUNTING**
- Mounting fixture for supporting thermobulb in pipeline
[NASA-CASE-NPO-10158] c33 N71-16356
- Mounting apparatus for temperature control system
[NASA-CASE-NPO-10138] c33 N71-16357
- Inertial component clamping assembly design for spacecraft guidance and control system mounting
[NASA-CASE-XMS-02184] c15 N71-20813
- Techniques for packaging and mounting printed circuit boards
[NASA-CASE-MFS-21919-1] c10 N73-25243
- Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c37 N75-30562
- MOVING TARGET INDICATORS**
- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c09 N74-12912
- MULTICHANNEL COMMUNICATION**
- Tape guidance system for multichannel digital recording system
[NASA-CASE-XNP-09453] c08 N71-19420
- Plural channel data transmission system with quadrature modulation and complementary demodulation
[NASA-CASE-XAC-06302] c08 N71-19763
- Multichannel medical monitoring system to measure physiological parameters from display device at remote control station
[NASA-CASE-MSC-14180-1] c05 N73-22045
- Improved phase lock loop for receiver in multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c07 N73-28012
- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c05 N74-26625
- Analog to digital converter
[NASA-CASE-NPO-13385-1] c08 N74-32646
- MULTILAYER INSULATION**
- Electrode sealing and insulation for fuel cells containing caustic liquid electrolytes using powdered plastic and metal
[NASA-CASE-XMS-01625] c15 N71-23022
- Multilayer insulation panels for cryogenic liquid containers
[NASA-CASE-MFS-14023] c33 N71-25351
- Electrical failure detector in solid rocket propellant motor insulation against thermal degradation by fuel grain
[NASA-CASE-XNP-03968] c14 N71-27186
- Insulation foil and method of making
[NASA-CASE-LEW-11484-2] c24 N75-14839
- Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c24 N75-33181

MULTIPLE BEAM INTERVAL SCANNERS

Tracking antenna system with array for
synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854
Variable beamwidth antenna --- with multiple
beam, variable feed system
[NASA-CASE-GSC-11862-1] c09 N74-32674

MULTIPLE DOCKING ADAPTERS

Probe and drogue assembly for mechanical linking
of two space vehicles
[NASA-CASE-XMS-03613] c31 N71-16346
Multiple in-line docking capability having
intermeshing docking turrets for rotating
space stations
[NASA-CASE-MFS-20855-1] c31 N72-25853

MULTIPLE OUTPUT PROGRAMS

Multi-computer multiple data path hardware
exchange system
[NASA-CASE-NPO-13422-1] c62 N75-12652

MULTIPLEXING

Doppler frequency shift correction device for
multiplex communication with Applications
Technology Satellites
[NASA-CASE-XGS-02749] c07 N69-39978
Multiplexed communication system design
including automatic correction of transmission
errors introduced by frequency spectrum shifts
[NASA-CASE-XNP-01306] c07 N71-20814
Satellite network synchronization system with
multiple access to multiplex repeater
[NASA-CASE-GSC-10390-1] c07 N72-11149
Apparatus with summing network for compression
of analog data by decreasing slope threshold
sampling
[NASA-CASE-NPO-10769] c08 N72-11171
Development and characteristics of data
multiplexer circuit using field effect
transistors arranged in tree switching
configuration
[NASA-CASE-NPO-11333] c08 N72-22162
Telemetry and transmission system with
programmed sampling and multiplexing
[NASA-CASE-GSC-11388-1] c07 N73-24187
Television multiplexing system, using single
crystal controlled clock for signal
synchronization
[NASA-CASE-KSC-10654-1] c07 N73-30115
Asynchronous, multiplexing, single line
transmission and recovery data system --- for
satellite use
[NASA-CASE-NPO-13321-1] c32 N75-26195
Correlation type phase detector --- with time
correlation integrator for frequency
multiplexed signals
[NASA-CASE-GSC-11744-1] c33 N75-26243

MULTIPLIERS
Pulse duration modulation multiplier system
[NASA-CASE-XER-09213] c07 N71-12390
Design and development of variable pulse width
multiplier
[NASA-CASE-XLA-02850] c09 N71-20447
Capacitance multiplier and filter synthesizing
network
[NASA-CASE-NPO-11948-1] c10 N74-32712

MULTISPECTRAL PHOTOGRAPHY
Computerized optical system for producing
multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661
An optical process for producing classification
maps from multispectral data
[NASA-CASE-MSC-14472-1] c13 N74-32780

MULTISTAGE ROCKET VEHICLES
Techniques for recovery of multistage rocket
vehicles by providing lifting surfaces on
individual sections
[NASA-CASE-XNP-00389] c31 N70-34176
Steerable solid propellant rocket motor adapted
to effect payload orientation as multistage
rocket stage or reduce velocity as retrorocket
[NASA-CASE-XNP-00234] c28 N70-38645
Multi-mission space vehicle module stage design
[NASA-CASE-XNP-01543] c31 N71-17730
Separation mechanism for use between stages of
multistage rocket vehicles
[NASA-CASE-XLA-00188] c15 N71-22874
Development of remotely controlled shaped charge
for lateral displacement of rocket stages
after separation
[NASA-CASE-XLA-04804] c31 N71-23008

Frangible connecting link suitable for rocket
stage separation
[NASA-CASE-MSC-11849-1] c15 N72-22488

MULTIVIBRATORS

Extra-long monostable multivibrator employing
bistable semiconductor switch to allow
charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819
Variable frequency magnetic coupled
multivibrator with temperature compensated
frequency control circuit
[NASA-CASE-XGS-00458] c09 N70-38604
Variable frequency magnetic coupled
multivibrator with output signal of constant
amplitude and waveform
[NASA-CASE-XGS-00131] c09 N70-38995
Improved semiconductor multivibrator circuit
which approaches 100 percent efficiency
[NASA-CASE-XAC-00942] c10 N71-16042
Transistorized dc-coupled multivibrator with
noninverted output signal
[NASA-CASE-XNP-09450] c10 N71-18723
One shot multivibrator circuit for producing
long duration output pulses
[NASA-CASE-ARC-10137-1] c09 N71-28468

MUSCLES

Subminiature insertable force transducer ---
including a strain gage to measure forces in
muscles
[NASA-CASE-NPO-13423-1] c33 N75-31329

MUSCULAR FUNCTION

Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c54 N75-17102

MUSCULOSKELETAL SYSTEM

Method and apparatus for applying compressional
forces to skeletal structure of subject to
simulate force during ambulatory conditions
[NASA-CASE-ARC-10100-1] c05 N71-24738

MYOCARDIUM

Myocardium wall thickness transducer
[NASA-CASE-NPO-13644-1] c35 N75-22689

N**NACELLES**

Deflector for preventing objects from entering
nacelle inlets of jet aircraft
[NASA-CASE-XLE-00388] c28 N70-34788
Afterburner-equipped jet engine nacelle with
slotted configuration afterbody
[NASA-CASE-XLA-10450] c28 N71-21493

NAVIGATION AIDS

Magnetic heading reference
[NASA-CASE-LAR-11387-1] c06 N75-12947
Binocular attachment --- for display of
numerical information in the field of view of
the binoculars
[NASA-CASE-LAR-11782-1] c35 N75-30516

NAVIGATION INSTRUMENTS

Sun angle calculator
[NASA-CASE-MSC-12617-1] c35 N75-15019

NAVIGATION SATELLITES

Satellite aided aircraft collision avoidance
system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948

NEAR INFRARED RADIATION

Collimator for analyzing spatial location of
near and distant sources of radiation
[NASA-CASE-MFS-20546-2] c14 N73-30389

NEGATIVE FEEDBACK

Complementary regenerative transistorized switch
circuit employing positive and negative feedback
[NASA-CASE-XGS-02751] c09 N71-23015

NETWORK SYNTHESIS

Left and right hand circular electromagnetic
polarization excitation by phase shifter and
hybrid networks
[NASA-CASE-GSC-10021-1] c09 N71-24595
High speed phase detector design indicating
phase relationship between two square wave
input signals
[NASA-CASE-XNP-01306-2] c09 N71-24596

NEUTRALIZERS

Method and apparatus for neutralizing potentials
induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N75-27265

NEUTRON EMISSION

Deuterium pass through target --- for neutron
generating

- [NASA-CASE-LEW-11866-1] c11 N74-32719
- NICKEL**
- Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
- Selective nickel deposition on irradiation sensitive compounds
[NASA-CASE-LEW-10965-1] c15 N72-25452
- Brazing alloy composition
[NASA-CASE-XNP-06053] c26 N75-27126
- NICKEL ALLOYS**
- Preparation of nickel alloys for jet turbine blades operating at high temperatures
[NASA-CASE-XLE-00151] c17 N70-33283
- Nickel alloy series for aerospace structures subjected to high temperatures
[NASA-CASE-XLE-00283] c17 N70-36616
- Nickel base alloy with resistance to oxidation at high temperatures and superior stress-rupture properties
[NASA-CASE-XLE-02082] c17 N71-16026
- High strength nickel based alloys
[NASA-CASE-LEW-10874-1] c17 N72-22535
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c15 N74-21055
- A zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c26 N75-26087
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236
- NICKEL CADMIUM BATTERIES**
- Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c14 N74-27859
- NICKEL COATINGS**
- Intermetallic chromium containing nickel aluminide for high temperature corrosion protection of stainless steels
[NASA-CASE-LEW-11267-1] c17 N73-32414
- NICKEL COMPOUNDS**
- Including didymium hydrate in nickel hydroxide of positive electrode of storage batteries to increase ampere hour capacity
[NASA-CASE-XGS-03505] c03 N71-10608
- Brazing alloy
[NASA-CASE-XNP-03878] c26 N75-27127
- NICKEL FLATE**
- Nickel plating onto etched aluminum castings
[NASA-CASE-XNP-04148] c17 N71-24830
- NI OBIUM**
- Organometallic compounds of niobium and tantalum useful for film deposition
[NASA-CASE-XNP-04023] c06 N71-28808
- NITRIDES**
- Growth of gallium nitride crystals
[NASA-CASE-LAR-11302-1] c25 N75-13054
- NITRILES**
- Intumescent paint containing nitrile rubber for fire protection
[NASA-CASE-ARC-10196-1] c18 N73-13562
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-1] c06 N74-34579
- NITROAMINES**
- Nitroaniline sulfate, intumescent paints
[NASA-CASE-ARC-10099-1] c18 N71-15469
- Mercaptan terminated polymer containing sulfonic acid salts of nitrosubstituted aromatic amines for heat and moisture resistant coatings
[NASA-CASE-ARC-10325] c06 N72-25147
- NITROGEN**
- The 3-5 photocathode with nitrogen doping for increased quantum efficiency --- using acceptor materials
[NASA-CASE-NPO-12134-1] c33 N75-16745
- NITROGEN DIOXIDE**
- Method for detecting pollutants --- ozone, nitrogen dioxide, carbon dioxide
[NASA-CASE-LAR-11405-1] c35 N75-15938
- NITROGEN TETROXIDE**
- Gas chromatographic method for determining water in nitrogen tetroxide rocket propellant
[NASA-CASE-NPO-10234] c06 N72-17094
- NITROGUANIDINE**
- Solid propellant stabilizer containing nitroguanidine
[NASA-CASE-NPO-12000] c27 N72-25699
- NOBLE METALS**
- Development and characteristics of device for applying multiple layers of noble metal to glass substrate for protection of optical surfaces
[NASA-CASE-LAR-10362-1] c15 N72-27486
- NOISE GENERATORS**
- Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MPS-22671-1] c35 N75-21582
- Method of and means for testing a tape record/playback system
[NASA-CASE-MPS-22671-2] c35 N75-31418
- NOISE METERS**
- Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c35 N75-19614
- NOISE REDUCTION**
- Upper surface, external flow, jet-augmented flap configuration for high wing jet aircraft for noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332
- Cassegrain antenna subreflector flange for suppressing ground noise and increasing antenna transmitting efficiency
[NASA-CASE-XNP-00683] c09 N70-35425
- Device for adding water to high velocity exhaust jets to reduce velocity, noise, and temperature
[NASA-CASE-XNP-01813] c28 N70-41582
- Variable time constant, wide frequency range smoothing network for noise removal from pulse chains
[NASA-CASE-XGS-01983] c10 N70-41964
- Digital telemetry system apparatus to reduce tape recorder wow and flutter noise during playback
[NASA-CASE-XGS-01812] c07 N71-23001
- Audio signal processing system for noise surge elimination at low amplitude audio input
[NASA-CASE-MSC-12223-1] c07 N71-26181
- Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-XNP-09830] c14 N71-26266
- Noise elimination in coherent imaging system by axial rotation of optical lense for spectral distribution of degrading affects
[NASA-CASE-GSC-11133-1] c23 N72-11568
- Audio equipment for removing impulse noise from audio signals
[NASA-CASE-NPO-11631] c10 N73-12244
- Jet aircraft exhaust nozzle for noise reduction
[NASA-CASE-LAR-10951-1] c28 N73-19819
- Development of aircraft configuration for reduction of jet aircraft noise by exhausting engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
- Method and apparatus for improving operating efficiency and reducing low speed noise for turbine aircraft engines
[NASA-CASE-LAR-11310-1] c28 N73-31699
- Method for eliminating noise and debris of explosive welding techniques by using complete enclosure
[NASA-CASE-LAR-10941-2] c15 N73-32371
- Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c28 N74-15453
- Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c15 N74-21057
- Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c02 N74-27490
- Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c28 N74-28226
- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c28 N74-31270
- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c02 N74-32418
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c28 N74-33218

- Cascade plug nozzle
[NASA-CASE-LAR-11674-1] c28 N74-33220
- Television noise reduction device
[NASA-CASE-MSC-12607-1] c32 N75-21485
- Optical noise suppression device and method ---
for optical data processing computer having
laser light source
[NASA-CASE-MSC-12640-1] c74 N75-28871
- Apparatus for reducing aerodynamic noise in a
wind tunnel
[NASA-CASE-MFS-23099-1] c09 N75-32134
- NOISE TEMPERATURE**
Input radio frequency circuit for switching type
absolute temperature measuring radiometer for
noise sources
[NASA-CASE-ERC-11020] c14 N71-26774
- NOISE THRESHOLD**
Threshold extension device for improving
operating performance of frequency modulation
demodulators by eliminating click-type noise
impulses
[NASA-CASE-MSC-12165-1] c07 N71-33696
- NONDESTRUCTIVE TESTS**
Nondestructive radiographic tests of resistance
welds
[NASA-CASE-INP-02588] c15 N71-18613
- Space environment simulator for testing
spacecraft components under aerospace conditions
[NASA-CASE-NPO-10141] c11 N71-24964
- Apparatus for semiautomatic inspection of
microfilmed documents for density, resolution,
size, and position
[NASA-CASE-MFS-20240] c14 N71-26788
- Dye penetrant and technique for nondestructive
tests of solid surfaces contacted by liquid
oxygen
[NASA-CASE-INP-02221] c18 N71-27170
- Method and photodetector device for locating
abnormal voids in low density materials
[NASA-CASE-MFS-20044] c14 N71-28993
- Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c35 N75-25124
- NON-EQUILIBRIUM PLASMAS**
Plasma probes having guard ring and primary
sensor at same potential to prevent stray wall
current collection in ionized gases
[NASA-CASE-XLE-00690] c25 N69-39884
- NONFLAMMABLE MATERIALS**
Intumescent paint containing nitrile rubber for
fire protection
[NASA-CASE-ARC-10196-1] c18 N73-13562
- Process for developing flame retardant
elastomeric composition textiles for use in
space suits
[NASA-CASE-MSC-14331-1] c18 N73-27501
- NONLINEAR FEEDBACK**
Coherent receiver employing nonlinear coherence
detection for carrier tracking
[NASA-CASE-NPO-11921-1] c07 N74-30523
- Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c08 N74-32648
- NONLINEAR SYSTEMS**
Detector assembly for discriminating first
signal with respect to presence or absence of
second signal at time of occurrence of first
signal
[NASA-CASE-INP-00701] c09 N70-40272
- Describing continuous analog to digital
converter with parallel digital output and
nonlinear feedback
[NASA-CASE-XAC-04031] c08 N71-18594
- Split range transducer
[NASA-CASE-XLA-11189] c10 N72-20222
- NOSE CONES**
Automatically deploying nozzle exit cone extension
[NASA-CASE-XLE-01640] c31 N71-15637
- Nose cone mounted heat resistant antenna
comprising plurality of adjacent layers of
silica not introducing paths of high thermal
conductivity through ablative shield
[NASA-CASE-IMS-04312] c07 N71-22984
- NOSE WHEELS**
Nose gear steering system for vehicles with main
skids to provide directional stability after
loss of aerodynamic control
[NASA-CASE-XLA-01804] c02 N70-34160
- NOTCH TESTS**
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c14 N74-13131
- NOZZLE DESIGN**
High thrust annular liquid propellant rocket
engine and exhaust nozzle design
[NASA-CASE-XLE-00078] c28 N70-33284
- Penshaped, supersonic exhaust nozzle design
[NASA-CASE-XLE-00057] c28 N70-38711
- Telescoping-spike supersonic nozzle for turbojet
or ramjet engines
[NASA-CASE-XLE-00005] c28 N70-39899
- Automatically deploying nozzle exit cone extension
[NASA-CASE-XLE-01640] c31 N71-15637
- Propellant injection assembly having
individually removable and replaceable nozzles
for liquid fueled rocket engines
[NASA-CASE-INP-00968] c28 N71-15660
- Development of collapsible nozzle extension for
rocket engines
[NASA-CASE-MFS-11497] c28 N71-16224
- Design and development of gas turbine combustion
unit with nozzle guide vanes for introducing
diluent air into combustion gases
[NASA-CASE-XLE-103477-1] c28 N71-20330
- Prestressed rocket nozzle with ceramic inner
rings and refractory metal outer rings
[NASA-CASE-INP-02888] c18 N71-21068
- Scanning nozzle plating system --- for etching
or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c15 N74-23065
- NOZZLE FLOW**
System for aerodynamic control of rocket
vehicles by secondary injection of fluid into
nozzle exhaust stream
[NASA-CASE-XLA-01163] c21 N71-15582
- Constructing fluid spike nozzle to eliminate
heat transfer and high temperature problems
inherent in physical spikes
[NASA-CASE-XGS-01143] c31 N71-15647
- Electronic recording system for spatial mass
distribution of liquid rocket propellant
droplets or vapors ejected from high velocity
nozzles
[NASA-CASE-NPO-10185] c10 N71-26339
- Tertiary flow injection system for thrust
vectoring of propulsive nozzle flow
[NASA-CASE-MFS-20831] c28 N71-29153
- Exhaust flow deflector
[NASA-CASE-LAR-11570-1] c28 N74-28233
- NOZZLE INSERTS**
Flexible rocket motor nozzle closure device to
aid ignition and protect rocket chamber from
foreign objects
[NASA-CASE-XLA-02651] c28 N70-41967
- NUCLEAR ELECTRIC POWER GENERATION**
Nuclear electric generator for accelerating
charged propellant particles in electrostatic
propulsion system
[NASA-CASE-XLE-00818] c22 N70-34248
- NUCLEAR EXPLOSION EFFECT**
Development of method for protecting large and
oddly shaped areas from radiant and convective
heat
[NASA-CASE-INP-01310] c33 N71-28852
- NUCLEAR FUEL BURNUP**
Low cost efficient thermionic converter for use
in nuclear reactors
[NASA-CASE-NPO-13121-1] c22 N73-12702
- NUCLEAR FUEL ELEMENTS**
Tungsten-coated tungsten-uranium dioxide nuclear
fuel plates
[NASA-CASE-XLE-00209] c22 N73-32528
- NUCLEAR MAGNETIC RESONANCE**
Variable frequency nuclear magnetic resonance
spectrometer providing drive signals over wide
frequency range and minimizing noise effects
[NASA-CASE-INP-09830] c14 N71-26266
- NUCLEAR POWER PLANTS**
Development and characteristics of natural
circulation radiator for use with nuclear
power plants installed in lunar space stations
[NASA-CASE-XHQ-03673] c33 N71-29046
- NUCLEAR REACTOR CONTROL**
Absorbing gas reactivity control system for
minimizing power distribution and perturbation
in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597
- NUCLEAR REACTORS**
Low cost efficient thermionic converter for use
in nuclear reactors
[NASA-CASE-NPO-13121-1] c22 N73-12702

NUCLEAR ROCKET ENGINES

Nuclear gaseous reactor for heating working fluid to high temperatures
[NASA-CASE-XLE-00321] c22 N70-34572

NUCLEATE BOILING

Method for improving heat transfer characteristics in nucleate boiling process
[NASA-CASE-XMS-04268] c33 N71-16277

NULL ZONES

Manual control mechanism for adjusting control rod to null position
[NASA-CASE-XLA-01808] c15 N71-20740

NUMERICAL CONTROL

Digital sensor for counting fringes produced by interferometers with improved sensitivity and one photomultiplier tube to eliminate alignment problem
[NASA-CASE-LAR-10204] c14 N71-27215

NUMERICAL INTEGRATION

Apparatus for computing square roots
[NASA-CASE-XGS-04768] c08 N71-19437
Binary concatenated coding system to measure, count, and record numerical information using minimized number of digits
[NASA-CASE-MSC-14082-1] c08 N73-16163

NUTATION

Flexible turnstile antenna system for reducing nutation in spin-oriented satellites
[NASA-CASE-XMF-00442] c31 N71-10747
Nutation damper for use on spinning body
[NASA-CASE-GSC-11205-1] c15 N73-25513

NUTS (FASTENERS)

Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922
Split nut and bolt separation device
[NASA-CASE-XNP-06914] c15 N71-21489
Device for securing together structural members with axially stretched bolt and nut
[NASA-CASE-GSC-11149-1] c15 N73-30457

O

O RING SEALS

High pressure four-way valve with C ring adapted to pass across inlet port
[NASA-CASE-XNP-00214] c15 N70-36908

OHMMETERS

Development of electrical system for indicating optimum contact between electrode and metal surface to permit improved soldering operation
[NASA-CASE-KSC-10242] c15 N72-23497

OILS

Color photointerpretation of interference colors reflected from thin film oil-coated components in moving gases for gas flow visualization
[NASA-CASE-XMF-01779] c12 N71-20815
Cross linked polymer system for oil or fat absorption properties
[NASA-CASE-NPO-11609-1] c06 N72-22114

OMNIDIRECTIONAL ANTENNAS

Microwave omnidirectional antenna for use on spacecraft
[NASA-CASE-XLA-03114] c09 N71-22888
Vertically stacked collinear array of independently fed omnidirectional antennas for use in collision warning systems on commercial aircraft
[NASA-CASE-LAR-10545-1] c09 N72-21244
Omnidirectional antenna array with circumferential slots for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c09 N72-25247

ONBOARD EQUIPMENT

Survival couch for aircraft or spacecraft crews
[NASA-CASE-XLA-00118] c05 N70-33285
Cryogenic storage system for gases onboard spacecraft
[NASA-CASE-XMS-04390] c31 N70-41871
Fiber optic transducers for monitoring and analysis of vibration in aerospace vehicles and onboard equipment
[NASA-CASE-XMF-02433] c14 N71-10616
Design and construction of satellite appendage tie-down cord
[NASA-CASE-XGS-02554] c31 N71-21064
Satellite aided aircraft collision avoidance system effective for large number of aircraft

[NASA-CASE-ERC-10090] c21 N71-24948
Closed loop servosystem for variable speed tape recorders onboard spacecraft
[NASA-CASE-NPO-10700] c07 N71-33613
Collapsible couch system for manned space vehicles
[NASA-CASE-MSC-13140] c05 N72-11085
Monostable multivibrator for conserving power in spacecraft systems
[NASA-CASE-GSC-10082-1] c10 N72-20221
Delayed simultaneous appendage release mechanism for use on spacecraft equipped with despin mechanisms and releasable components
[NASA-CASE-GSC-10814-1] c03 N73-20039
Electronic strain level counter on in-flight aircraft
[NASA-CASE-LAR-10756-1] c32 N73-26910
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c06 N75-12947

OPHTHALMOLOGY

Ultrasonic device for ophthalmic eye surgery with safe removal of macerated material
[NASA-CASE-LEW-11669-1] c05 N73-27062
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c52 N75-33640

OPTICAL COMMUNICATION

Fabry-Perot interferometer retrodirective reflector modulator for optical communication
[NASA-CASE-XGS-04480] c16 N65-27491
Specifications and drawings for semipassive optical communication system
[NASA-CASE-XLA-01090] c07 N71-12389
Optical communication system with gas filled waveguide for laser beam transmission
[NASA-CASE-HQN-10541-4] c16 N71-27183
Development and characteristics of optical communications system based on modulation of light beams
[NASA-CASE-XLA-01090] c16 N71-28963
High resolution radar transmitting system for transmitting optical pulses to targets
[NASA-CASE-NPO-11426] c07 N73-26119
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c07 N74-22827
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c36 N75-13243

OPTICAL COUPLING

Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c14 N74-21017

OPTICAL DATA PROCESSING

Optical data processing system using paraboloidal reflecting surfaces
[NASA-CASE-GSC-11296-1] c23 N73-30666
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c07 N74-15831

OPTICAL EMISSION SPECTROSCOPY

Maksutov spectrograph for low light level research
[NASA-CASE-XLA-10402] c14 N71-29041

OPTICAL EQUIPMENT

Detection instrument for light emitted from ATP biochemical reaction
[NASA-CASE-XGS-05534] c23 N71-16355
Optical characteristics measuring apparatus
[NASA-CASE-XNP-08840] c23 N71-16365
Combined optical attitude and altitude indicating instrument for use in aircraft or spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268
Design and development of optical interferometer with laser light source for application to schlieren systems
[NASA-CASE-XLA-04295] c16 N71-24170
Highly stable optical mirror assembly optimizing image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
Optical device containing rotatable prism and reflecting mirror for generating precise angles
[NASA-CASE-XGS-04173] c19 N71-26674
Development and characteristics of Petzval type objective including field shaping lens for focusing light of specified wavelength band on curved photoreceptor
[NASA-CASE-GSC-10700] c23 N71-30027
Slotted fine-adjustment support for optical devices
[NASA-CASE-MFS-20249] c15 N72-11386

- Development of process for constructing protective covers for solar cells
[NASA-CASE-GSC-11514-1] c03 N72-24037
- Development of light sensing system for controlled orientation of object relative to sun or other light source
[NASA-CASE-NPO-11311] c14 N72-25414
- Development and characteristics of device for applying multiple layers of noble metal to glass substrate for protection of optical surfaces
[NASA-CASE-LAR-10362-1] c15 N72-27486
- Borescope with adjustable hinged telescoping optical system
[NASA-CASE-MFS-15162] c14 N72-32452
- Development and characteristics of cyclically operable, optical shutter for use as focal plane shutter for transmitting single radiation pulses
[NASA-CASE-NPO-10758] c14 N73-14427
- Method for producing reticles for use in outer space
[NASA-CASE-GSC-11188-2] c21 N73-19630
- Method and equipment for locating earth infrared horizon from space, independent of season and latitude
[NASA-CASE-LAR-10726-1] c14 N73-20475
- Optical imaging system for increasing light absorption efficiency of imaging detector
[NASA-CASE-ARC-10194-1] c23 N73-20741
- Development of optical system for detecting defective components in rotating machinery with emphasis on bearing assemblies
[NASA-CASE-KSC-10752-1] c15 N73-27407
- Attitude sensor
[NASA-CASE-LAR-10586-1] c14 N74-15089
- Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c14 N74-20008
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c23 N74-21304
- Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c14 N74-23040
- Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c07 N74-30532
- Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c35 N75-12273
- OPTICAL FILTERS**
- Lens assembly for solar furnace or solar simulator
[NASA-CASE-XNP-04111] c14 N71-15622
- Noise elimination in coherent imaging system by axial rotation of optical lens for spectral distribution of degrading affects
[NASA-CASE-GSC-11133-1] c23 N72-11568
- Optical noise suppression device and method --- for optical data processing computer having laser light source
[NASA-CASE-MSC-12640-1] c74 N75-28871
- OPTICAL HETERODYNING**
- Computerized optical system for producing multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661
- OPTICAL MEASUREMENT**
- Passive optical wind and turbulence remote detection system
[NASA-CASE-XNP-14032] c20 N71-16340
- Ellipsoidal mirror reflector for measuring reflectance
[NASA-CASE-XGS-05291] c23 N71-16341
- Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c14 N74-23040
- OPTICAL MEASURING INSTRUMENTS**
- Design and development of optically pumped resonance magnetometer for determining vectoral components in spatial coordinate system
[NASA-CASE-XGS-04879] c14 N71-20428
- Optical gauging system for monitoring machine tool alignment
[NASA-CASE-XAC-05489-1] c15 N71-26673
- Optical system for selecting particular wavelength light beams from multiple wavelength light source
[NASA-CASE-ERC-10248] c14 N72-17323
- Optical sensing of supersonic flows by correlating deflections in laser beams through flow
[NASA-CASE-MFS-20642] c14 N72-21407
- Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759
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[NASA-CASE-MSC-14096-1] c14 N74-15095
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- Remote-reading torque meter for use where high horsepower are transmitted at high rotative speeds
[NASA-CASE-XLR-00503] c14 N70-34818
- Quasi-optical microwave circuit with dielectric body for use with oversize waveguides
[NASA-CASE-ERC-10011] c07 N71-29065
- Development of light sensing system for controlled orientation of object relative to sun or other light source
[NASA-CASE-NPO-11311] c14 N72-25414
- Design and development of light sensing device for controlling orientation of object relative to sun or other light source
[NASA-CASE-NPO-11201] c14 N72-27409
- Device and method for determining X ray reflection efficiency, scattering properties, and surface finish of optical surfaces
[NASA-CASE-MFS-20243] c23 N73-13662
- Ultraviolet and thermally stable polymer compositions --- poly/(diarylsiloxy)/arylazines
[NASA-CASE-ARC-10592-2] c06 N74-11926
- Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c14 N74-20008
- Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c15 N74-21060
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- Xenon flashlamp driver system for optical laser pumping
[NASA-CASE-ERC-10283] c16 N72-25485
- Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c36 N75-19655
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- Filter arrangement for controlling light intensity in motion picture camera used in optical pyrometry
[NASA-CASE-XLA-00062] c14 N70-33254
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- Acquisition and tracking system for optical radar
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- Electro-optical attitude sensing device for landing approach of flight vehicle
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- Hybrid holographic system using reference, transmitted, and reflected beams simultaneously
[NASA-CASE-MFS-20074] c16 N71-15565
- Optical device containing rotatable prism and reflecting mirror for generating precise angles
[NASA-CASE-XGS-04173] c19 N71-26674
- Illumination system design for use as sunlight simulator in space environment simulators with multiple light sources reflected to single virtual source
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- Composition of diffuse reflective coating containing sodium chloride in combination with diol solvent and organic wetting and drying agents
[NASA-CASE-GSC-11214-1] c06 N73-13128
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[NASA-CASE-GSC-11786-1] c18 N74-10542
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[NASA-CASE-HQN-10844-1] c36 N75-19653
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[NASA-CASE-NPO-11106] c14 N70-34697
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[NASA-CASE-XGS-05715] c23 N71-16100
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[NASA-CASE-MFS-14017] c14 N71-26627
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[NASA-CASE-XMS-01906] c31 N70-41373
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[NASA-CASE-XMF-05344] c31 N71-16345
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pyromellitic dianhydride and tetraamino benzene
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[NASA-CASE-XNP-03250] c06 N71-23500
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[NASA-CASE-NPO-10701] c06 N71-28620
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organic Cu/II/ chelate catalytic additive
[NASA-CASE-LAR-10173-1] c27 N71-14090
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ion and tetraphenylphosphonitrilic units
[NASA-CASE-HQH-10364] c06 N71-27363
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[NASA-CASE-MFS-22411-1] c15 N74-21058
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Relief valve to permit slow and fast bleeding
rates at difference pressure levels
[NASA-CASE-XMS-05894-1] c15 N69-21924
- ORIFICES**
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changes in density, velocity, and pressure,
thereby maintaining constant mass flow rate of
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biorthogonal Reed-Muller type code comprising
conversion of 64 6-bit words into 64 32-bit
data for communication purposes
[NASA-CASE-NPO-10595] c10 N71-25917
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[NASA-CASE-XAC-04885] c14 N71-23790
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motor casing having minimum thickness at each
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tapered channels to insure minimum thicknesses
at each channel cross section for necessary
strength requirements
[NASA-CASE-XLE-05689] c28 N71-15659
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[NASA-CASE-XLA-02079] c12 N71-16894
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satellites using single damper rod
[NASA-CASE-XAC-01591] c31 N71-17729
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[NASA-CASE-LAR-10193-1] c15 N71-27146
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[NASA-CASE-XLA-03724] c14 N69-27461
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[NASA-CASE-GSC-10041-1] c10 N71-19418
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[NASA-CASE-XGS-05289] c09 N71-19470
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amplitude modulation for signal ratio system
[NASA-CASE-XMF-04367] c09 N71-23545
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oscillator analog to digital converter with
variable frequency controlled by signal
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phase stability
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[NASA-CASE-XNP-03916] c09 N71-28810

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dependent output frequency
[NASA-CASE-NPO-11962-1] c09 N74-10194

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transistors
[NASA-CASE-GSC-11513-1] c09 N74-20862

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amplitude via bias current control --- power
supply circuit for transducers
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[NASA-CASE-NPO-13479-1] c14 N74-32890

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amplitude, frequency, damping, and phase
pulses for oscilloscope display
[NASA-CASE-NPO-10251] c10 N71-27365

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sensitivity of photomultiplier tube
[NASA-CASE-LAR-10320-1] c09 N72-23172

Mechanical exposure interlock device for
preventing film overexposure in oscilloscope
camera
[NASA-CASE-LAR-10319-1] c14 N73-32322

X-Y alphanumeric character generator for
oscilloscopes
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Spectrometer integrated with a facsimile camera
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[NASA-CASE-XNP-08840] c23 N71-16365

Helium outgassing process for fused glass
coating on ion accelerator grid
[NASA-CASE-LER-10278-1] c15 N71-28582

Fluid polydimethylsiloxane resin with low
outgassing properties in cured state
[NASA-CASE-GSC-11358-1] c06 N73-26100

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Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c08 N74-32648

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[NASA-CASE-XMS-04318] c15 N69-27871

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Spark gap type protective circuit for fast
sensing and removal of overvoltage conditions
[NASA-CASE-XAC-08981] c09 N69-39897

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power overloads
[NASA-CASE-GSC-10667-1] c10 N71-33129

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[NASA-CASE-ARC-10197-1] c09 N74-17929

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Silicide coating process and composition for
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[NASA-CASE-XLE-10910] c18 N71-29040

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[NASA-CASE-ARC-10469-1] c25 N75-12086

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Nickel base alloy with resistance to oxidation
at high temperatures and superior
stress-rupture properties
[NASA-CASE-XLE-02082] c17 N71-16026

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--- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c37 N75-13261

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[NASA-CASE-LEW-11696-2] c26 N75-19408

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Method of fluxless brazing and diffusion bonding
of aluminum containing components
[NASA-CASE-MSC-18435-1] c15 N74-20071

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Utilization of lithium p-lithiophenoxide to
prepare star polymers
[NASA-CASE-NPO-10998-1] c06 N73-32029

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fuel cells
[NASA-CASE-XLE-04526] c03 N71-11052

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chamber of reaction engine

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and pressure, pulse rate, and pressure pulse
curve, using dc and ac amplifiers
[NASA-CASE-XAC-05422] c04 N71-23185

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metal
[NASA-CASE-XLE-01997] c06 N71-23527

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impurities from cesium
[NASA-CASE-XNP-04262-2] c17 N71-26773

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[NASA-CASE-LAR-10668-1] c06 N73-16106

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similar soil
[NASA-CASE-MSC-12408-1] c13 N74-13011

Nonflammable coating compositions --- for use in
high oxygen environments
[NASA-CASE-MFS-20486-2] c18 N74-17283

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determining subjects oxygen consumption in
aerospace environments
[NASA-CASE-XPR-08403] c05 N71-11202

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[NASA-CASE-NPO-12061-1] c06 N72-21100

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rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c05 N74-20728

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nitrogen dioxide, carbon dioxide
[NASA-CASE-LAR-11405-1] c35 N75-15938

P

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gold rectifying contacts
[NASA-CASE-XLE-10529] c14 N69-23191

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provide stress and strain sensor
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semiconductor junctions by doping with lithium
[NASA-CASE-XGS-07801] c09 N71-12513

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vivo biomedical use
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[NASA-CASE-XLE-04787] c03 N71-20492

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doped gallium arsenide
[NASA-CASE-XNP-01961] c26 N71-29156

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[NASA-CASE-XLA-04980-2] c14 N72-28438

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surface
[NASA-CASE-ERC-10339-1] c18 N73-30532

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Addition of group 3 elements to silicon
semiconductor material for increased
resistance to radiation damage in solar cells
[NASA-CASE-XLE-02798] c26 N71-23654

Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c09 N74-34638

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impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225

One hand backpack harness
[NASA-CASE-LAR-10102-1] c05 N72-23085

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flexible sheets into compact configuration

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- [NASA-CASE-XLA-00138] c31 N70-37981
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- [NASA-CASE-MFS-20855] c15 N73-27405
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- [NASA-CASE-ABC-10099-1] c18 N71-15469
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- [NASA-CASE-XGS-04799] c18 N71-24183
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- [NASA-CASE-XNP-02139] c18 N71-24184
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- [NASA-CASE-XGS-01419] c03 N70-41864
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- [NASA-CASE-MSC-13335-1] c06 N72-31140
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- [NASA-CASE-XLA-01807] c15 N71-10799
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- [NASA-CASE-MFS-14023] c33 N71-25351
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- [NASA-CASE-XNP-03413] c03 N71-26726
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- [NASA-CASE-XLA-08916] c15 N71-29018
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- [NASA-CASE-ERC-10364] c18 N72-25540
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- [NASA-CASE-LAR-11052-1] c32 N73-13929
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- [NASA-CASE-XNP-00611] c09 N70-35219
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- [NASA-CASE-NPO-10173] c15 N71-24696
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- [NASA-CASE-XLA-04622] c03 N70-41580
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- [NASA-CASE-XMS-03454] c09 N71-20658
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- [NASA-CASE-GSC-11013-1] c09 N73-19234
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- [NASA-CASE-GSC-11046-1] c07 N73-28013
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- [NASA-CASE-GSC-11968-1] c09 N74-34649
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- [NASA-CASE-GSC-11296-1] c23 N73-30666
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- [NASA-CASE-XLA-00898] c02 N70-36804
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- [NASA-CASE-XMS-04072] c15 N70-42017
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- [NASA-CASE-LAR-10549-1] c31 N73-13898
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- [NASA-CASE-XLE-01533] c11 N71-10777
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[NASA-CASE-XGS-03230] c14 N71-23401
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[NASA-CASE-GSC-11889-1] c14 N74-32887
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[NASA-CASE-LEW-11390-3] c11 N73-28128
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[NASA-CASE-XLE-06461-2] c17 N72-28535
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[NASA-CASE-LAR-1C805-1] c18 N74-16246
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[NASA-CASE-LAR-10961-1] c15 N73-12496
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[NASA-CASE-HQN-10037-1] c14 N73-27376
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[NASA-CASE-LEW-11583-1] c15 N74-13199
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[NASA-CASE-MFS-21395-1] c14 N74-26948
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- PASSIVE SATELLITES**
Erectable, inflatable, radio signal reflecting passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309
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[NASA-CASE-XGS-02608] c07 N70-41678
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[NASA-CASE-NPO-10309] c15 N69-23190
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[NASA-CASE-XLE-10529] c14 N69-23191
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[NASA-CASE-XMS-06761] c05 N69-23192
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[NASA-CASE-LAR-10894-1] c18 N73-14584
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[NASA-CASE-XLA-05369] c31 N71-15687
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[NASA-CASE-XLA-01339] c31 N71-15692
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[NASA-CASE-XLA-09881] c31 N71-16085
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[NASA-CASE-NPO-12107] c08 N71-27255
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[NASA-CASE-XMP-02221] c18 N71-27170
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[NASA-CASE-NPO-11129] c09 N72-33204
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[NASA-CASE-XLE-02083] c03 N69-39983
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[NASA-CASE-XLE-01182] c27 N71-15635
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[NASA-CASE-MSC-12259-1] c07 N70-12616

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POLYMERIC FILMS

Ethylene oxide sterilization and encapsulating process for sterile preservation of instruments and solid propellants
[NASA-CASE-NXP-09763] c14 N71-20461

Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-NXP-07659] c06 N71-22975

Transparent plastic film for attaching cover glasses to silicon solar cells
[NASA-CASE-LEW-11065-1] c03 N72-11064

Thermoelectric radiometer using polymer film as capacitor
[NASA-CASE-ARC-10138-1] c14 N72-24477

Silicon solar cell with plastic film binding to cover glass
[NASA-CASE-LEW-11065-2] c03 N73-26048

Development and characteristics of system for skin packaging articles using thermoplastic film heating and vacuum operated equipment
[NASA-CASE-NPS-20855] c15 N73-27405

POLYMERIZATION

Synthesis of polyfluorobutadiene by polymerization of perfluorobutadiene with diisopropyl peroxydicarbonate
[NASA-CASE-NPO-10863] c06 N70-11251

Low pressure perfluorobutadiene polymerization with peroxide catalysts
[NASA-CASE-NPO-10447] c06 N70-11252

Process for interfacial polymerization of pyromellitic dianhydride and tetraamino benzene
[NASA-CASE-XLA-03104] c06 N71-11235

Synthesis and chemical properties of imidazopyrrolone/imide copolymers
[NASA-CASE-XLA-08802] c06 N71-11238

Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-NXP-08655] c06 N71-11239

Synthesis of azine polymers for heat shields by azine-aromatic aldehyde reaction
[NASA-CASE-NXP-08656] c06 N71-11242

Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-NXP-08652] c06 N71-11243

Preparation of elastomeric diamine silazane polymers
[NASA-CASE-NXP-04133] c06 N71-20717

Reaction of polyperfluoropolyenes with fluorine to produce saturated polymer chain or create reactive sites on chain
[NASA-CASE-NPO-10862] c06 N72-22107

Cross linked polymer system for oil or fat absorption properties
[NASA-CASE-NPO-11609-1] c06 N72-22114

Silphenylenesiloxane polymer with in-chain perfluoroalkyl groups
[NASA-CASE-NPS-20979] c06 N72-25151

Polymerization of perfluorobutadiene
[NASA-CASE-NPO-10863-2] c06 N72-25152

Preparation of fluorohydroxy ethers by reacting fluoroalkylene oxides with alkali salt of polyfluoroalkylene diol
[NASA-CASE-NPS-10507] c06 N73-30101

Preparation of fluorinated polyethers from 2-hydro-perhaloisopropyl alcohols
[NASA-CASE-NPS-11492] c06 N73-30102

Fabrication of polyphenylquinoxaline composite articles by means of in situ polymerization of monomers
[NASA-CASE-LEW-11879-1] c18 N74-20152

Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c25 N75-12087

Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-1] c27 N75-26136

POLYMERS

Preparation of ordered poly/arylenesiloxane/polymers
[NASA-CASE-NXP-10753] c06 N71-11237

Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-NXP-03074] c06 N71-24740

Automated ball rebound resilience test equipment for determining viscoelastic properties of polymers
[NASA-CASE-XLA-08254] c14 N71-26161

Infusible polymer production from reaction of polyfunctional epoxy resins with polyfunctional aziridine compounds
[NASA-CASE-NPO-10701] c06 N71-28620

Development of solid state polymer coating for obtaining thermal balance in spacecraft components
[NASA-CASE-XLA-01745] c33 N71-28903

Mercaptan terminated polymer containing sulfonic acid salts of nitrosubstituted aromatic amines for heat and moisture resistant coatings
[NASA-CASE-ARC-10325] c06 N72-25147

Solid propellant containing hydrazinium nitroformate oxidizer and polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c27 N73-16764

Chemical process for production of polyisobutylene compounds and application as solid rocket propellant binder
[NASA-CASE-NPO-10893] c27 N73-22710

Utilization of lithium p-lithiophenoxide to prepare star polymers
[NASA-CASE-NPO-10998-1] c06 N73-32029

Ultraviolet and thermally stable polymer compositions --- poly/(diarylsiloxy)/arylazines
[NASA-CASE-ARC-10592-2] c06 N74-11926

Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c15 N74-20071

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c18 N74-21156

POLYTETRAFLUOROETHYLENE

Procedure for bonding polytetrafluoroethylene thermal protective sleeves to magnesium alloy conical shell components with different thermal coefficients
[NASA-CASE-XLA-01262] c15 N71-21404

POLYURETHANE FOAM

Self-erectable space structures of flexible foam for application in planetary orbits
[NASA-CASE-XLA-00686] c31 N70-34135

Modification of polyurethanes with alkyl halide resins, inorganic salts, and encapsulated volatile and reactive halogen for fuel fire control
[NASA-CASE-ARC-10098-1] c06 N71-24739

Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c18 N74-11366

Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c06 N74-12814

Mixing insert for foam dispensing apparatus
[NASA-CASE-NPS-20607-1] c15 N74-26989

POLYURETHANE RESINS

Chemical synthesis of hydroxy terminated perfluoro ethers as intermediates for highly fluorinated polyurethane resins
[NASA-CASE-NPO-10768] c06 N71-27254

Formation of polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c06 N72-27144

- Fluorinated polyurethanes produced by reacting hydroxy terminated perfluoro polyether with diisocyanate
[NASA-CASE-NPO-10767-2] c06 N72-27151
- Chemical and physical properties of synthetic polyurethane polymer prepared by reacting hydroxy carbonate with organic diisocyanate
[NASA-CASE-MFS-10512] c06 N73-30099
- Preparation of stable polyurethane polymer by reacting polymer with diisocyanate
[NASA-CASE-MFS-10506] c06 N73-30100
- Preparation of polyurethane polymer by reacting hydroxy polyformal with organic diisocyanate
[NASA-CASE-MFS-10509] c06 N73-30103
- Chemical and elastic properties of fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c06 N73-33076
- POBDS**
Solar pond
[NASA-CASE-NPO-13581-1] c44 N75-27560
- PORCELAIN**
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c27 N75-27160
- POROSITY**
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c37 N75-26371
- POROUS MATERIALS**
Production of refractory bodies with controlled porosity by pressing and heating mixtures of refractory and inert metal powders
[NASA-CASE-LEW-10393-1] c17 N71-15468
- Multilayer porous refractory metal ionizer design with thick, porous, large-grain substrates and thin, porous micron-grain substrates
[NASA-CASE-XNP-04338] c17 N71-23046
- Lubrication for bearings by capillary action from oil reservoir of porous material
[NASA-CASE-XNP-03972] c15 N71-23048
- Method and photodetector device for locating abnormal voids in low density materials
[NASA-CASE-MFS-20044] c14 N71-28993
- Production method for manufacturing porous tungsten bodies from tungsten powder particles
[NASA-CASE-XNP-04339] c17 N71-29137
- Compressible electrolyte saturated sponge electrode for biomedical applications
[NASA-CASE-MSC-13648] c05 N72-27103
- Porous electrode for use in electrochemical cells
[NASA-CASE-GSC-11368-1] c09 N73-32108
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c03 N74-19692
- A self-lubricating bearing
[NASA-CASE-MFS-22009-1] c37 N75-12328
- POROUS PLATES**
Method for producing porous tungsten plates for ionizing cesium compounds for propulsion of ion engines
[NASA-CASE-XLE-00455] c28 N70-38197
- PORTABLE EQUIPMENT**
Portable electron beam welding chamber
[NASA-CASE-LEW-11531] c15 N71-14932
- Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XNP-02212] c15 N71-22721
- Portable cutting machine for piping weld preparation
[NASA-CASE-XKS-07953] c15 N71-26134
- Method and apparatus for precision sizing and joining of large diameter tubes by bulging or constricting overlapping ends
[NASA-CASE-XNP-05114-2] c15 N71-26148
- Portable cryogenic cooling system design including turbine pump, cooling chamber, and atomizer
[NASA-CASE-NPO-10467] c23 N71-26654
- Automatic controlled drive mechanism for portable boring bar
[NASA-CASE-XLA-03661] c15 N71-33518
- One hand backpack harness
[NASA-CASE-LAR-10102-1] c05 N72-23085
- Portable tester for monitoring bacterial contamination by adenosine triphosphate light reaction
[NASA-CASE-GSC-10879-1] c14 N72-25413
- Portable penetrometer for analyzing soil characteristics
[NASA-CASE-MFS-20774] c14 N73-19420
- Hand-held, lightweight, portable photomicroscope
[NASA-CASE-ARC-10468-1] c14 N73-33361
- An improved portable peening gun
[NASA-CASE-MFS-23047-1] c37 N75-10459
- System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c37 N75-33395
- An improved load handling device
[NASA-CASE-MFS-23233-1] c54 N75-33725
- PORTS (OPENINGS)**
Sealing evacuation port and evacuating vacuum container such as space jackets
[NASA-CASE-XMP-03290] c15 N71-23256
- POSITION (LOCATION)**
Position locating system for remote aircraft using voice communication and digital signals
[NASA-CASE-GSC-10087-2] c21 N71-13958
- Development of telemetry system for position location and data acquisition
[NASA-CASE-GSC-10083-1] c30 N71-16090
- Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-XKS-07814] c15 N71-27067
- System and method for position locating for air traffic control involving supersonic transports
[NASA-CASE-GSC-10087-3] c07 N72-12080
- Location identification system with ground based transmitter and aircraft borne receiver/decoder
[NASA-CASE-ERC-10324] c07 N72-25173
- System for detecting impact position of cosmic dust on detector surface
[NASA-CASE-GSC-11291-1] c25 N72-33696
- Collimator for analyzing spatial location of near and distant sources of radiation
[NASA-CASE-MFS-20546-2] c14 N73-30389
- Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c14 N74-32877
- Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c32 N75-26194
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331
- POSITION INDICATORS**
Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
[NASA-CASE-XGS-08266] c14 N69-27432
- Characteristics and performance of electrical system to determine angular rotation
[NASA-CASE-XNP-00447] c14 N70-33179
- Magnetic element position sensing device, using misaligned electromagnets
[NASA-CASE-XGS-07514] c23 N71-16099
- Describing angular position and velocity sensing apparatus
[NASA-CASE-XGS-05680] c14 N71-17585
- Mosaic semiconductor radiation detector and position indicator systems engineering for low energy particles
[NASA-CASE-XGS-03230] c14 N71-23401
- Doppler compensated communication system for locating supersonic transport position
[NASA-CASE-GSC-10087-4] c07 N73-20174
- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c35 N75-33367
- POSITIONING**
Centering device with ultrafine adjustment for use with roundness measuring apparatus
[NASA-CASE-XNP-00480] c14 N70-39898
- Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-XNP-01452] c15 N70-41371
- Electro-optical/computer system for aligning large structural members and maintaining correct position
[NASA-CASE-XNP-02029] c14 N70-41955
- Manual control mechanism for adjusting control rod to null position
[NASA-CASE-XLA-01808] c15 N71-20740
- Rotating raster generator
[NASA-CASE-PRC-10071-1] c07 N74-20813

- Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c37 N75-29430
- POSITIONING DEVICES (MACHINERY)**
- Swivel support for gas bearing for position adjustment between ball and supporting cup
[NASA-CASE-XMF-07808] c15 N71-23812
- Caterpillar micropositioner for positioning machine tools adjacent to workpiece
[NASA-CASE-GSC-10780-1] c14 N72-16283
- Positioning mechanism for converting translatory motion into rotary motion
[NASA-CASE-NPO-10679] c15 N72-21462
- Design and development of test stand system for supporting test items in vacuum chamber
[NASA-CASE-MPS-21362] c11 N73-20267
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c23 N74-21304
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014
- Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c54 N75-27760
- POSITIVE FEEDBACK**
- Complementary regenerative transistorized switch circuit employing positive and negative feedback
[NASA-CASE-XGS-02751] c09 N71-23015
- POTABLE WATER**
- Potable water reclamation from human wastes in zero-G environment
[NASA-CASE-XLA-03213] c05 N71-11207
- Utilization of solar radiation by solar still for converting salt and brackish water into potable water
[NASA-CASE-XMS-04533] c15 N71-23086
- Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933
- Potable water dispenser
[NASA-CASE-MPS-21115-1] c05 N74-12779
- Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MPS-21163-1] c05 N74-17853
- POTASSIUM SILICATES**
- Fireproof potassium silicate coating composition, insoluble in water after application
[NASA-CASE-GSC-10072] c18 N71-14014
- POTENTIOMETERS (INSTRUMENTS)**
- Two axis flight controller with potentiometer control shafts directly coupled to rotatable ball members
[NASA-CASE-XFR-04104] c03 N70-42073
- Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control
[NASA-CASE-XAC-10019] c15 N71-23809
- Mechanical function generators with potentiometer as sensing element
[NASA-CASE-XAC-00001] c15 N71-28952
- POTTING COMPOUNDS**
- Removable potting compound for instrument shock protection
[NASA-CASE-XLA-00482] c15 N70-36409
- Flexible, repairable, pottable composition for encapsulating electric connectors
[NASA-CASE-XGS-05180] c18 N71-25881
- Thermally conductive polymer for potting electrical components
[NASA-CASE-GSC-11304-1] c06 N72-21105
- POWDER METALLURGY**
- Freeze casting of metal ceramic and refractory compound powders into plastic slips
[NASA-CASE-XLE-00106] c15 N71-16076
- Production method for manufacturing porous tungsten bodies from tungsten powder particles
[NASA-CASE-XNP-04339] c17 N71-29137
- Dry electrode manufacture, using silver powder with cement
[NASA-CASE-FRC-10029-2] c05 N72-25121
- Grinding mixtures of powdered metals and inert fillers for conversion to halide
[NASA-CASE-LEW-10450-1] c15 N72-25448
- Superalloys from prealloyed powders at high temperatures
[NASA-CASE-LEW-10805-1] c15 N73-13465
- Development of method for fabricating cermets and analysis of various compositions to show electrical and physical properties
[NASA-CASE-NPO-13120-1] c18 N73-23629
- Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c17 N74-10521
- Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c15 N74-13179
- POWER**
- Nonequilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c73 N75-22108
- POWER AMPLIFIERS**
- Characteristics of high power, low distortion, alternating current power amplifier
[NASA-CASE-LAR-10218-1] c09 N70-34559
- Power supply with automatic power factor conversion system
[NASA-CASE-XMS-02159] c10 N71-22961
- Solid state broadband stable power amplifier
[NASA-CASE-XNP-10854] c10 N71-26331
- High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430
- Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MPS-21616-1] c33 N75-30429
- POWER EFFICIENCY**
- Low power drain transistor feedback circuit
[NASA-CASE-XGS-04999] c09 N69-24317
- Excitation and detection circuitry for flux responsive magnetic head
[NASA-CASE-XNP-04183] c09 N69-24329
- Increasing available power per unit area in ion rocket engine by increasing beam density
[NASA-CASE-XLE-00519] c28 N70-41576
- Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597
- Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c15 N75-13007
- POWER GAIN**
- Serrodyne traveling wave tube reentrant amplifier for synchronous communication satellites operating at microwave frequencies
[NASA-CASE-XGS-01022] c07 N71-16088
- Switching circuit for control of cathode ray tube beam with fast rise time for output signal
[NASA-CASE-KSC-10647-1] c10 N72-31273
- POWER LIMITERS**
- Monostable multivibrator for conserving power in spacecraft systems
[NASA-CASE-GSC-10082-1] c10 N72-20221
- POWER LINES**
- Patent data on terminal insert connector for flat electric cables
[NASA-CASE-XMF-00324] c09 N70-34596
- Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c33 N75-19524
- POWER SERIES**
- Describing circuit for obtaining sum of squares of numbers
[NASA-CASE-XGS-04765] c08 N71-18693
- POWER SPECTRA**
- Method and apparatus for high resolution power spectrum analysis
[NASA-CASE-NPO-10748] c08 N72-20177
- POWER SUPPLIES**
- Tape recorder designed for low power consumption and resistance to operational failure under high stress conditions
[NASA-CASE-XGS-08259] c14 N71-23698
- Current dependent variable inductance for input filter chokes of ac or dc power supplies
[NASA-CASE-ERC-10139] c09 N72-17154
- Performance of ac power supply developed for CO2 laser system
[NASA-CASE-GSC-11222-1] c16 N73-32391
- POWER SUPPLY CIRCUITS**
- Regulated dc to dc converter
[NASA-CASE-XGS-03429] c03 N69-21330
- Power control switching circuit using low voltage semiconductor controlled rectifiers for high voltage isolation
[NASA-CASE-XNP-02713] c10 N69-39888
- Increasing power conversion efficiency of electronic amplifiers by power supply switching
[NASA-CASE-XMS-00945] c09 N71-10798
- Electric power system utilizing thermionic plasma diodes in parallel and heat pipes as

- cathodes
[NASA-CASE-XMP-05843] c03 N71-11055
Pulsed energy power system for application of
combustible gases to turbine controlling ac
voltage generator
[NASA-CASE-MSC-13112] c03 N71-11057
Data processor having multiple sections
activated at different times by selective
power coupling to sections
[NASA-CASE-XGS-04767] c08 N71-12494
Microwave power receiving antenna solving heat
dissipation problems by construction of
elements as heat pipe devices
[NASA-CASE-MFS-20333] c09 N71-13486
Design, development, and operating principles of
power supply with starting circuit which is
independent of voltage regulator
[NASA-CASE-XMS-01991] c09 N71-21449
Power supply with automatic power factor
conversion system
[NASA-CASE-XMS-02159] c10 N71-22961
Electric circuit for reversing direction of
current flow
[NASA-CASE-XNP-00952] c10 N71-23271
Power supply with overload protection for series
stage transistor
[NASA-CASE-XMS-00913] c10 N71-23543
Automatic power supply circuit design for
driving inductive loads and minimizing power
consumption including solenoid example
[NASA-CASE-NPO-10716] c09 N71-24892
Unsaturating magnetic core transformer design
with warning signal for electrical power
processing equipment
[NASA-CASE-ERC-10125] c09 N71-24893
Device for monitoring voltage by generating
signal when voltages drop below predetermined
value
[NASA-CASE-KSC-10020] c10 N71-27338
Power point tracker for maintaining optimal
output voltage of power source
[NASA-CASE-GSC-10376-1] c14 N71-27407
Microwave power divider for providing variable
output power to output waveguide in fixed
waveguide system
[NASA-CASE-NPO-11031] c07 N71-33606
Circuit for monitoring power supply by ripple
current indication
[NASA-CASE-KSC-10162] c09 N72-11225
Dc to ac to dc converter with transistor driven
synchronous rectifiers
[NASA-CASE-GSC-11126-1] c09 N72-25253
LC-oscillator with automatic stabilized
amplitude via bias current control --- power
supply circuit for transducers
[NASA-CASE-MFS-21698-1] c09 N74-26732
Integrable power gyrator --- with Z-matrix
design using parallel transistors
[NASA-CASE-MFS-22342-1] c33 N75-30428
- PRECESSION**
Dynamic precession damping of spin-stabilized
vehicles by using rate gyroscope and angular
accelerometer
[NASA-CASE-XLA-01989] c21 N70-34295
- PRECIPITATION (CHEMISTRY)**
Production of pure metals
[NASA-CASE-LEW-10906-1] c06 N74-30502
- PRECISION**
Precision stepping drive device using cam disk
[NASA-CASE-MFS-14772] c15 N71-17692
Method and apparatus for precision sizing and
joining of large diameter tubes by bulging or
constricting overlapping ends
[NASA-CASE-XMP-05114-2] c15 N71-26148
- PREFLIGHT OPERATIONS**
Automatic balancing device for use on
frictionless supported attitude-controlled
test platforms
[NASA-CASE-LAR-10774] c10 N71-13545
- PRELAUNCH TESTS**
Low loss parasitic probe antenna for prelaunch
tests of spacecraft antennas
[NASA-CASE-XKS-09348] c09 N71-13521
Digital computer system for automatic prelaunch
checkout of spacecraft
[NASA-CASE-XKS-08012-2] c31 N71-15566
- PREPARATION**
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c25 N75-13053
- PREPOLYMERS**
Carboxyl terminated polyester prepolymers and
foams produced from prepolymers and materials
[NASA-CASE-NPO-10596] c06 N71-25929
- PRESSURE CHAMBERS**
Triggering system for electric arc driven
impulse wind tunnel
[NASA-CASE-XMP-00411] c11 N70-36913
Whole body measurement systems --- for
weightlessness simulation
[NASA-CASE-MSC-13972-1] c05 N74-10975
- PRESSURE DISTRIBUTION**
Piston device for producing known constant
positive pressure within lungs by using
thoracic muscles
[NASA-CASE-XMS-01615] c05 N70-41329
Preventing pressure buildup in electrochemical
cells by reacting palladium oxide with evolved
hydrogen
[NASA-CASE-XGS-01419] c03 N70-41864
- PRESSURE DROP**
Leak detector
[NASA-CASE-MFS-21761-1] c35 N75-15931
- PRESSURE EFFECTS**
System for stabilizing cable phase delay
utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c09 N74-17927
Evacuated, displacement compression mold --- of
tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c31 N75-13111
Internally supported flexible duct joint ---
device for conducting fluids in high pressure
systems
[NASA-CASE-MFS-19193-1] c37 N75-19686
- PRESSURE GAGES**
Differential pressure cell insensitive to
changes in ambient temperature and extreme
overload
[NASA-CASE-XAC-00042] c14 N70-34816
Blood pressure measuring system for separately
recording dc and ac pressure signals of
Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
Control system for pressure balance device used
in calibrating pressure gages
[NASA-CASE-XMP-04134] c14 N71-23755
Improved McLeod gage for pressure measurement
[NASA-CASE-XAC-04458] c14 N71-24232
Ultrahigh vacuum gauge with two collector
electrodes
[NASA-CASE-LAR-02743] c14 N73-32324
- PRESSURE GRADIENTS**
Positive displacement flowmeter for measuring
extremely low flows of fluid with self
calibrating features
[NASA-CASE-XMP-02822] c14 N70-41994
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c02 N74-26456
- PRESSURE MEASUREMENTS**
Design and development of inertia diaphragm
pressure transducer
[NASA-CASE-XAC-02981] c14 N71-21072
Design and development of pressure sensor for
measuring differential pressures of few pounds
per square inch
[NASA-CASE-XMP-01974] c14 N71-22752
Improved McLeod gage for pressure measurement
[NASA-CASE-XAC-04458] c14 N71-24232
Coherent light beam device and method for
measuring gas density in vacuum chambers
[NASA-CASE-XEB-11203] c14 N71-28994
Design, development, and characteristics of
pressure and temperature sensor operating
immersed in fluid flow
[NASA-CASE-LEW-10281-1] c14 N72-17327
Calibration of vacuum gauges for measuring total
and partial pressures in ultrahigh vacuum region
[NASA-CASE-XGS-07752] c14 N73-30390
Absolute pressure measuring device for measuring
gas density level in high vacuum range
[NASA-CASE-LAR-10000] c14 N73-30394
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c11 N74-17955
- PRESSURE REDUCTION**
Relief valve to permit slow and fast bleeding
rates at difference pressure levels
[NASA-CASE-XMS-05894-1] c15 N69-21924
Sealed electric storage battery with gas
manifold interconnecting each cell

- [NASA-CASE-XNP-03378] c03 N71-11051
- PRESSURE REGULATORS**
- Pressure regulating system with high pressure fluid source, adapted to maintain constant downstream pressure [NASA-CASE-XNP-00450] c15 N70-38603
- Pulmonary resuscitation method and apparatus with adjustable pressure regulator [NASA-CASE-XMS-01115] c05 N70-39922
- Structural design of high pressure regulator valve [NASA-CASE-XNP-00710] c15 N71-10778
- Space suit with pressure-volume compensator system [NASA-CASE-XLA-05332] c05 N71-11194
- Portable environmental control and life support system for astronaut in and out of spacecraft [NASA-CASE-XMS-09632-1] c05 N71-11203
- Antibacklash circuit for hydraulic drive system [NASA-CASE-XNP-01020] c03 N71-12260
- High impact pressure regulator having minimum number of lightweight movable elements [NASA-CASE-NPO-10175] c14 N71-18625
- Pressure regulator for space suit worn underwater to simulate space environment for testing and experimentation [NASA-CASE-MFS-20332] c05 N72-20097
- Underwater space suit pressure control regulator [NASA-CASE-MFS-20332-2] c05 N73-25125
- Combined pressure regulator and shutoff valve [NASA-CASE-NPO-13201-1] c37 N75-15050
- PRESSURE SENSORS**
- Fabrication of pressure-telemetry transducers [NASA-CASE-XNP-09752] c14 N69-21541
- Pressure probe for sensing ambient static air pressures [NASA-CASE-XLA-00481] c14 N70-36824
- Ambient atmospheric pressure sensing device for determining altitude of flight vehicles [NASA-CASE-XLA-00128] c15 N70-37925
- Dynamic sensor for gas pressure or density measurement [NASA-CASE-XAC-02877] c14 N70-41681
- Design and development of inertia diaphragm pressure transducer [NASA-CASE-XAC-02981] c14 N71-21072
- Design and development of pressure sensor for measuring differential pressures of few pounds per square inch [NASA-CASE-XMF-01974] c14 N71-22752
- Combination pressure transducer-calibrator assembly for measuring fluid [NASA-CASE-XNP-01660] c14 N71-23036
- Pressure sensor network for measuring liquid dynamic response in flight including fuel tank acceleration, liquid slosh amplitude, and fuel depth monitoring [NASA-CASE-XLA-05541] c12 N71-26387
- Miniature electromechanical junction transducer operating on piezoelectric effect and utilizing epoxy for stress coupling component [NASA-CASE-ERC-10087] c14 N71-27334
- Method for making pressurized meteoroid penetration detector panels [NASA-CASE-XLA-08916] c15 N71-29018
- Design, development, and characteristics of pressure and temperature sensor operating immersed in fluid flow [NASA-CASE-LEW-10281-1] c14 N72-17327
- Pressure transducer for systems for measuring forces of compression [NASA-CASE-NPO-10832] c14 N72-21405
- Pressure operated electrical switch responsive to pressure decrease after pressure increase [NASA-CASE-LAR-10137-1] c09 N72-22204
- Wide range dynamic pressure sensor with vibrating diaphragm for measuring density and pressure of gaseous environment [NASA-CASE-ARC-10263-1] c14 N72-22438
- Development of differential pressure control system using motion of mechanical diaphragms to operate electric switch [NASA-CASE-MFS-14216] c14 N73-13418
- System for calibrating pressure transducer [NASA-CASE-LAR-10910-1] c14 N74-13132
- Trielectrode capacitive pressure transducer [NASA-CASE-ARC-10711-1] c14 N74-29773
- Stagnation pressure probe --- for measuring pressure of supersonic gas streams [NASA-CASE-LAR-11139-1] c14 N74-32878
- An improved static pressure probe [NASA-CASE-LAR-11552-1] c35 N75-10412
- Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure [NASA-CASE-LEW-11581-1] c54 N75-13531
- Leak detector [NASA-CASE-MFS-21761-1] c35 N75-15931
- Catheter tip force transducer for cardiovascular research [NASA-CASE-NPO-13643-1] c54 N75-25598
- Trielectrode capacitive pressure transducer [NASA-CASE-ARC-10711-2] c33 N75-29320
- Measurement of gas production of microorganisms --- using pressure sensors [NASA-CASE-LAR-11326-1] c35 N75-33368
- PRESSURE SUITS**
- Helmet and torso tiedown mechanism for shortening pressure suits upon inflation [NASA-CASE-XMS-00784] c05 N71-12335
- Design and development of flexible joint for pressure suits [NASA-CASE-XMS-09636] c05 N71-12344
- Cord restraint system for pressure suit joints [NASA-CASE-XMS-09635] c05 N71-24623
- Development of improved convolute section for pressurized suits to provide high degree of mobility in response to minimum of applied torque [NASA-CASE-XMS-09637-1] c05 N71-24730
- Fabrication of root cord restrained fabric suit sections from sheets of fabric [NASA-CASE-MSC-12398] c05 N72-20098
- Restraint torso for increased mobility and reduced physiological effects while wearing pressurized suits [NASA-CASE-MSC-12397-1] c05 N72-25119
- Flexible joint for pressurizable garment [NASA-CASE-MSC-110/72] c05 N74-32546
- PRESSURE SWITCHES**
- Reinforcing beam system for highly flexible diaphragms in valves or pressure switches [NASA-CASE-XNP-01962] c32 N70-41370
- PRESSURE VESSELS**
- Liquid rocket systems for propulsion and control of spacecraft [NASA-CASE-XNP-00610] c28 N70-36910
- Thin walled pressure test vessel using low-melting alloy-filled joint to attach shell to heads [NASA-CASE-XLE-04677] c15 N71-10577
- Control of gas flow from pressurized vessel by thermal expansion of metal plug [NASA-CASE-NPO-10298] c12 N71-17661
- Method and apparatus for inducing compressive stresses in pressure vessel to prevent stress corrosion [NASA-CASE-XLA-07390] c15 N71-18616
- Heater-mixer for stored fluids [NASA-CASE-ARC-10442-1] c14 N74-15093
- PRESSURE WELDING**
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process [NASA-CASE-LEW-11388-2] c15 N74-21055
- PRESTRESSING**
- Prestressed rocket nozzle with ceramic inner rings and refractory metal outer rings [NASA-CASE-XNP-02888] c18 N71-21068
- Preload torque limiting shaft coupling [NASA-CASE-LAR-11398-1] c37 N75-15994
- PRETREATMENT**
- Anti-wettable materials brazing processes using titanium and zirconium for surface pretreatment [NASA-CASE-XMS-03537] c15 N69-21471
- PRINTED CIRCUITS**
- Electrical feedthrough connection for printed circuit boards [NASA-CASE-XNP-01483] c14 N69-27431
- Electric connector for printed cable to printed cable or to printed board [NASA-CASE-XNP-00369] c09 N70-36494
- Electrical connection for printed circuits on common board, using bellows principle in rivet [NASA-CASE-XNP-05082] c15 N70-41960
- Electrical spot terminal assembly for printed circuit boards [NASA-CASE-NPO-10034] c15 N71-17685

- Solder coating process for printed copper circuit protection
[NASA-CASE-IMP-01599] c09 N71-20705
- Handling tool for printed circuit cards
[NASA-CASE-MFS-20453] c15 N71-29133
- Development and characteristics of polyimide impregnated laminates with fiberglass cloth backing for application as printed circuit boards
[NASA-CASE-MFS-20408] c18 N73-12604
- Techniques for packaging and mounting printed circuit boards
[NASA-CASE-MFS-21919-1] c10 N73-25243
- Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c15 N74-26977
- Connector --- for connecting circuits on different layers of a multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c33 N75-16747
- PRINTOUTS**
Handling tool for printed circuit cards
[NASA-CASE-MFS-20453] c15 N71-29133
- PRISMS**
Interferometer prism and control system for precisely determining direction to remote light source
[NASA-CASE-ARC-10278-1] c14 N73-25463
- PROBES**
Method and apparatus for connecting two spacecraft with probe of one inserted in rocket engine nozzle of other spacecraft
[NASA-CASE-MFS-11133] c31 N71-16222
- Development of droplet monitoring probe for use in analysis of droplet propagation in mixed-phase fluid stream
[NASA-CASE-NPO-1C985] c14 N73-20478
- PRODUCT DEVELOPMENT**
Using molds for fabricating individual fluid circuit components
[NASA-CASE-XLA-07829] c15 N72-16329
- Process for developing filament reinforced plastic tubes used in research and development programs
[NASA-CASE-LAR-10203-1] c15 N72-16330
- Simplified technique and device for producing industrial grade synthetic diamonds
[NASA-CASE-MFS-20698-2] c15 N73-19457
- High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c36 N75-27364
- PRODUCTION ENGINEERING**
Standard coupling design for mass production
[NASA-CASE-XMS-02532] c15 N70-41808
- Fabrication of curved reflector segments for solar mirror
[NASA-CASE-XLE-08917] c15 N71-15597
- Production of barium fluoride-calcium fluoride composite lubricant for bearings or seals
[NASA-CASE-XLF-06511-2] c18 N71-16105
- Fabrication of sintered impurity semiconductor brushes for electrical energy transfer
[NASA-CASE-IMP-01016] c26 N71-17818
- Technique for making foldable, inflatable, plastic honeycomb core panels for use in building and bridge structures, light and radio wave reflectors, and spacecraft
[NASA-CASE-XLA-03492] c15 N71-22713
- Multilayer porous refractory metal ionizer design with thick, porous, large-grain substrates and thin, porous micron-grain substrates
[NASA-CASE-XNP-04338] c17 N71-23046
- Permanently magnetized ion engine casing construction for use in spacecraft propulsion systems
[NASA-CASE-XNP-06942] c28 N71-23293
- Dry electrode design with wire sandwiched between two flexible conductive discs for monitoring physiological responses
[NASA-CASE-FRC-10029] c09 N71-24618
- Production method of star tracking reticles for transmitting in visible and near ultraviolet regions
[NASA-CASE-GSC-11188-1] c14 N73-32320
- Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-1C984-1] c37 N75-26371
- PROJECTILES**
Self-obturator gas-operated launcher for launching projectiles in decontaminated medium
[NASA-CASE-NPO-11013] c11 N72-22247
- Two stage light gas plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c11 N74-18891
- PROJECTORS**
Optical projector system for establishing optimum arrangement of instrument displays in aircraft, spacecraft, other vehicles, and industrial instrument consoles
[NASA-CASE-IMP-03853] c23 N71-21882
- PROPAGATION MODES**
Dual waveguide mode source for controlling amplitudes of two modes
[NASA-CASE-IMP-03134] c07 N71-10676
- PROPELLANT BINDERS**
Chemical process for production of polyisobutylene compounds and application as solid rocket propellant binder
[NASA-CASE-NPO-10893] c27 N73-22710
- PROPELLANT COMBUSTION**
Spherical solid propellant rocket engine having abrupt burnout
[NASA-CASE-IMP-01897] c28 N70-35381
- Rocket combustion chamber stability by controlling transverse instability during propellant combustion
[NASA-CASE-XLE-04603] c33 N71-21507
- PROPELLANT DECOMPOSITION**
Unit for generating thrust from catalytic decomposition of hydrogen peroxide, for high altitude aircraft or spacecraft reaction control
[NASA-CASE-XMS-00583] c28 N70-38504
- PROPELLANT GRAINS**
Grain configuration for solid propellant rocket engines
[NASA-CASE-XGS-03556] c27 N70-35534
- PROPELLANT TANKS**
Liquid rocket systems for propulsion and control of spacecraft
[NASA-CASE-IMP-00610] c28 N70-36910
- Slosh damping method for liquid rocket propellant tanks
[NASA-CASE-IMP-00658] c12 N70-38997
- Expulsion and measuring device for determining quantity of liquid in tank under conditions of weightlessness
[NASA-CASE-XMS-01546] c14 N70-40233
- Collapsible auxiliary tank for restarting liquid propellant rocket motors under zero gravity
[NASA-CASE-IMP-01390] c28 N70-41275
- Liquid propellant tank design with semitoroidal bulkhead
[NASA-CASE-IMP-01899] c31 N70-41948
- Microleak detector mounted on weld seam of propellant tank of launch vehicle
[NASA-CASE-IMP-02307] c14 N71-10779
- Fabrication of filament wound propellant tank for cryogenic storage
[NASA-CASE-XLE-03803-2] c15 N71-17651
- Slosh and swirl alleviator for liquid propellant tanks during transport and flight
[NASA-CASE-XLA-05749] c15 N71-19569
- Two phase fluid pressurization system for propellant tank
[NASA-CASE-MSC-12390] c27 N71-29155
- Space vehicle system
[NASA-CASE-MSC-12561-1] c31 N74-33303
- PROPELLANT TRANSFER**
Two component valve assembly for cryogenic liquid transfer regulation
[NASA-CASE-XLE-00397] c15 N70-36492
- Apparatus for cryogenic liquid storage with heat transfer reduction and for liquid transfer at zero gravity conditions
[NASA-CASE-XLE-00345] c15 N70-38020
- Continuous variation of propellant flow and thrust by application of liquid foam flow theory to injection orifice
[NASA-CASE-XLE-00177] c28 N70-40367
- Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635
- Electron bombardment ion rocket engine with improved propellant introduction system
[NASA-CASE-XLE-02066] c28 N71-15661

- Rocket combustion chamber stability by controlling transverse instability during propellant combustion
[NASA-CASE-XLE-04603] c33 N71-21507
- Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
[NASA-CASE-XMP-04042] c15 N71-23023
- Filler valve design for supplying liquid propellants at high pressure to space vehicles
[NASA-CASE-XNP-01747] c15 N71-23024
- Internal labyrinth and shield structure to improve electrical isolation of propellant feed source from ion thruster
[NASA-CASE-LEW-10210-1] c28 N71-26781
- Flexible bellows joint shielding sleeve for propellant transfer pipelines
[NASA-CASE-XNP-01855] c15 N71-28937
- PROPELLER BLADES**
- Directed fluid stream for propeller blade loading control
[NASA-CASE-XAC-00139] c02 N70-34856
- PROPORTIONAL CONTROL**
- Proportional controller for regulating aircraft or spacecraft motion about three axes
[NASA-CASE-XAC-03392] c03 N70-41954
- PROPULSION SYSTEM CONFIGURATIONS**
- Electrothermal rocket engine using resistance heated heat exchanger
[NASA-CASE-XLE-00267] c28 N70-33356
- Grain configuration for solid propellant rocket engines
[NASA-CASE-XGS-03556] c27 N70-35534
- Shrouded composite propulsion system configuration
[NASA-CASE-XLA-01043] c28 N71-10780
- Electrostatic microthruster propulsion system with annular slit colloid thruster
[NASA-CASE-GSC-10709-1] c28 N71-25213
- Method and apparatus for pressurizing propellant tanks used in propulsion motor feed system
[NASA-CASE-XNP-00650] c27 N71-28929
- PROPULSIVE EFFICIENCY**
- Method and apparatus for improving operating efficiency and reducing low speed noise for turbine aircraft engines
[NASA-CASE-LAR-11310-1] c28 N73-31699
- PROSTHETIC DEVICES**
- Prosthetic limb with tactile sensing device
[NASA-CASE-MFS-16570-1] c05 N73-32013
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c54 N75-12616
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c54 N75-32767
- PROTECTION**
- Camera protecting device for use in photographing rocket engine nozzles or other engine components
[NASA-CASE-NPO-10174] c14 N71-18465
- PROTECTIVE CLOTHING**
- Conditioning tanned sharkskin for use as abrasive resistant clothing
[NASA-CASE-XMS-05691-1] c18 N71-15545
- One piece human garment for use as contamination proof garment
[NASA-CASE-MSC-12206-1] c05 N71-17599
- Thermoregulating with cooling flow pipe network for humans
[NASA-CASE-XMS-10269] c05 N71-24147
- Development of improved convolute section for pressurized suits to provide high degree of mobility in response to minimum of applied torque
[NASA-CASE-XMS-05637-1] c05 N71-24730
- Voice operated receiving and transmitting system for use in protective suits
[NASA-CASE-KSC-10164] c07 N71-33108
- PROTECTIVE COATINGS**
- Process permitting application of synthetic resin coating to irregular-shaped objects at ambient temperature
[NASA-CASE-XNP-06508] c18 N69-39895
- Ultraviolet radiation resistant alkali-metal silicate coatings for temperature control of spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979
- Application techniques for protecting materials during salt bath brazing
[NASA-CASE-XLE-00046] c15 N70-33311
- Removable potting compound for instrument shock protection
[NASA-CASE-XLA-00482] c15 N70-36409
- Passive thermal control coating on aluminum foil laminate for inflatable spacecraft surfaces
[NASA-CASE-XLA-01291] c33 N70-36617
- Using ethylene oxide in preparation of sterilized solid rocket propellants and encapsulating materials
[NASA-CASE-XNP-01749] c27 N70-41897
- Fireproof potassium silicate coating composition, insoluble in water after application
[NASA-CASE-GSC-10072] c18 N71-14014
- Development of bacteriostatic conformal coating and methods of application
[NASA-CASE-GSC-10007] c18 N71-16046
- Vapor deposited laminated nitride-silicon coating for corrosion prevention of carbonaceous surfaces
[NASA-CASE-XLA-00284] c15 N71-16075
- Flame or plasma spraying for molybdenum coating of carbon or graphite surfaces to prevent oxidative corrosion
[NASA-CASE-XLA-00302] c15 N71-16077
- Development and characteristics of protective coatings for spacecraft
[NASA-CASE-XNP-02507] c31 N71-17679
- Development of thermal insulation system for wing and control surfaces of hypersonic aircraft and reentry vehicles
[NASA-CASE-XLA-00892] c33 N71-17897
- Bismuth and lead surface coatings for gas bearings in aerospace engineering
[NASA-CASE-XGS-02011] c15 N71-20739
- Composition and production method of alkali metal silicate paint with ultraviolet reflection properties
[NASA-CASE-XGS-04799] c18 N71-24183
- Method for treating metal surfaces to prevent secondary electron transmission
[NASA-CASE-XNP-09469] c24 N71-25555
- Development of solid state polymer coating for obtaining thermal balance in spacecraft components
[NASA-CASE-XLA-01745] c33 N71-28903
- Method for coating through-holes in ceramic substrates used in fabricating miniaturized electronic circuits
[NASA-CASE-XMP-05999] c15 N71-29032
- Zinc dust formulation for abrasion resistant steel coatings
[NASA-CASE-GSC-10361-1] c18 N72-23581
- Development of process for constructing protective covers for solar cells
[NASA-CASE-GSC-11514-1] c03 N72-24037
- Development and characteristics of device for applying multiple layers of noble metal to glass substrate for protection of optical surfaces
[NASA-CASE-LAR-10362-1] c15 N72-27486
- Improved silicide coatings for refractory metals employed in space shuttles and gas turbine engine components
[NASA-CASE-LEW-11179-1] c17 N73-22474
- Resin for protecting p-n semiconductor junction surface
[NASA-CASE-ERC-10339-1] c18 N73-30532
- Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-1] c18 N74-16246
- Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c18 N74-17283
- Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c15 N74-20071
- Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-1] c27 N75-26136
- PROTECTORS**
- Load cell protection device using spring-loaded breakaway mechanism
[NASA-CASE-XMS-06782] c32 N71-15974
- Payload soft landing system using stowable gas bag
[NASA-CASE-XLA-09881] c31 N71-16085
- PROTEINS**
- Protein sterilization of firefly luciferase without denaturation

[NASA-CASE-GSC-10225-1] c06 N73-27086
PROTON FLUX DENSITY
 Flame detector operable in presence of proton radiation
 [NASA-CASE-MFS-21577-1] c03 N74-29410
PSEUDONOISE
 System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
 [NASA-CASE-NPO-10214] c10 N71-26577
 Linear shift register with feedback logic for generating pseudonoise linear recurring binary sequences
 [NASA-CASE-NPO-11406] c08 N73-12175
 Multicarrier communications system for transmitting modulated signals from single transmitter
 [NASA-CASE-NPO-11548] c07 N73-26118
 Pseudo-noise test set for communication system evaluation --- test signals
 [NASA-CASE-MFS-22671-1] c35 N75-21582
PULLEYS
 Apparatus for measuring load on cable under static or dynamic conditions comprising pulleys pivoting structure against restraint of tension strap
 [NASA-CASE-XMS-04545] c15 N71-22878
 Tensile strength testing device having pulley guides for exerting multiple forces on test specimen
 [NASA-CASE-XNP-05634] c15 N71-24834
PULMONARY CIRCULATION
 Pulmonary resuscitation method and apparatus with adjustable pressure regulator
 [NASA-CASE-XMS-01115] c05 N70-39922
PULMONARY FUNCTIONS
 Piston device for producing known constant positive pressure within lungs by using thoracic muscles
 [NASA-CASE-XMS-01615] c05 N70-41329
PULSE AMPLITUDE
 Monitoring system for signal amplitude ranges over predetermined time interval
 [NASA-CASE-XMS-04061-1] c09 N69-39885
 Analog to digital converter for converting pulses to frequencies
 [NASA-CASE-XLA-00670] c08 N71-12501
 Electrical testing apparatus for detecting amplitude and width of transient pulse
 [NASA-CASE-XMP-06519] c09 N71-12519
 Analog to digital converter circuit for pulse height analysis
 [NASA-CASE-XNP-00477] c08 N73-28045
 Analog to digital converter
 [NASA-CASE-NPO-13385-1] c08 N74-32646
 Speech analyzer --- which provides information regarding amplitude, frequency, and phase of a speech waveform
 [NASA-CASE-GSC-11898-1] c32 N75-22563
PULSE AMPLITUDE MODULATION
 Voltage controlled oscillators and pulse amplitude modulation for signal ratio system
 [NASA-CASE-XMP-04367] c09 N71-23545
PULSE CODE MODULATION
 Adaptive compression signal processor for PCM communication systems
 [NASA-CASE-XLA-05076] c07 N71-11266
 Bipolar phase detector and corrector for split phase PCM data signals
 [NASA-CASE-XGS-01590] c07 N71-12392
 System for recording and reproducing PCM data from data stored on magnetic tape
 [NASA-CASE-XGS-01021] c08 N71-21042
 Frequency shift keying apparatus for use with pulse code modulation data transmission system
 [NASA-CASE-XGS-01537] c07 N71-23405
 Data reduction and transmission system for TV PCM data
 [NASA-CASE-NPO-11243] c07 N72-20154
 Pulse code modulated data from frequency multiplex communications by digital phase shift or carrier
 [NASA-CASE-NPO-11338] c08 N72-25208
 Bit synchronization of PCM communications signal, without separate synchronization channel by digital correlation
 [NASA-CASE-NPO-11302-1] c07 N73-13149

Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
 [NASA-CASE-NFO-11302-2] c07 N74-10132
 Multifunction audio digitizer --- producing direct delta and pulse code modulation
 [NASA-CASE-MSC-13855-1] c07 N74-17885
 Pulse code modulated signal synchronizer
 [NASA-CASE-MSC-12462-1] c07 N74-20809
 Pulse code modulated signal synchronizer
 [NASA-CASE-MSC-12494-1] c07 N74-20810
 Differential pulse code modulation
 [NASA-CASE-MSC-12506-1] c32 N75-19480
 Digital transmitter for data bus communications system
 [NASA-CASE-MSC-14558-1] c32 N75-21486
PULSE COMMUNICATION
 Phase shift data transmission system with pseudo-noise synchronization code modulated with digital data into single channel for spacecraft communication
 [NASA-CASE-XNP-00911] c08 N7C-41961
 Differential pulse code modulation
 [NASA-CASE-MSC-12506-1] c32 N75-19480
PULSE DURATION
 Frequency to analog converters with unipolar field effect transistor for determining potential charge by pulse duration of input signal
 [NASA-CASE-XNP-07040] c08 N71-12500
 Electrical testing apparatus for detecting amplitude and width of transient pulse
 [NASA-CASE-XMP-06519] c09 N71-12519
 Design and development of variable pulse width multiplier
 [NASA-CASE-XLA-02850] c09 N71-20447
 Device for voltage conversion using controlled pulse widths and arrangements to generate ac output voltage
 [NASA-CASE-MFS-10068] c10 N71-25139
 One shot multivibrator circuit for producing long duration output pulses
 [NASA-CASE-ABC-10137-1] c09 N71-28468
 Pulse stretcher for narrow pulses
 [NASA-CASE-MSC-14130-1] c10 N74-32711
PULSE DURATION MODULATION
 Pulse duration modulation multiplier system
 [NASA-CASE-XER-09213] c07 N71-12390
 Variable duration pulse integrator design for integrating pulse duration modulated pulses with elimination of ripple content
 [NASA-CASE-XLA-01219] c10 N71-23084
 Electric motor control system with pulse width modulation for providing automatic null seeking servo
 [NASA-CASE-XMP-05195] c10 N71-24861
 Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and magnetic storage
 [NASA-CASE-XGS-04224] c10 N71-26418
 Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
 [NASA-CASE-MSC-13492-1] c10 N71-28860
 Load current sensor for series pulse width modulated power supply
 [NASA-CASE-GSC-10656-1] c09 N72-25249
PULSE FREQUENCY MODULATION
 Electric current measuring apparatus design including saturable core transformer and energy storage device to avoid magnetizing current errors from transformer output winding
 [NASA-CASE-XGS-02439] c14 N71-19431
 Digitally controlled frequency synthesizer for pulse frequency modulation telemetry systems
 [NASA-CASE-XGS-02317] c09 N71-23525
 Noninterruptable digital counter circuit design with display device for pulse frequency modulation
 [NASA-CASE-XNP-09759] c08 N71-24891
 Threshold extension device for improving operating performance of frequency modulation demodulators by eliminating click-type noise impulses
 [NASA-CASE-MSC-12165-1] c07 N71-33696
PULSE GENERATORS
 High voltage pulse generator for testing flash and ignition limits of nonmetallic materials

- in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518
Interrogator and current driver circuit for
combination with transistor flip-flop circuit
[NASA-CASE-XGS-03058] c10 N71-19547
Electric circuit for producing high current
pulse having fast rise and fall time
[NASA-CASE-XMS-04919] c09 N71-23270
Pulse generator for synchronizing or resetting
electronic signals without requiring separate
external source
[NASA-CASE-XGS-03632] c09 N71-23311
Development and characteristics of resettable
monostable pulse generator with charge
rundown-timing circuit
[NASA-CASE-GSC-11139] c09 N71-27016
Pulse generating circuit for operation at very
high duty cycles and repetition rates
[NASA-CASE-INP-00745] c10 N71-28960
Pulse coupling circuit with switch between
generator and winding
[NASA-CASE-LEW-10433-1] c09 N72-22197
Method and apparatus for nondestructive testing
--- using high frequency arc discharges
[NASA-CASE-MPS-21233-1] c23 N74-15395
Random pulse generator
[NASA-CASE-MSC-14131-1] c33 N75-19515
- PULSE RATE**
Circuit for measuring wide range of pulse rates
by utilizing high capacity counter
[NASA-CASE-INP-06234] c10 N71-27137
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c33 N75-18479
- PULSED LASERS**
Repetitively pulsed wavelength selective carbon
dioxide laser
[NASA-CASE-ERC-10178] c16 N71-24832
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c36 N75-19654
- PULSED RADIATION**
Development and characteristics of cyclically
operable, optical shutter for use as focal
plane shutter for transmitting single
radiation pulses
[NASA-CASE-NPO-10758] c14 N73-14427
- PULSES**
High resolution radar transmitting system for
transmitting optical pulses to targets
[NASA-CASE-NPO-11426] c07 N73-26119
- PUMP SEALS**
Flexible barrier membrane comprising porous
substrate and incorporating liquid gallium or
indium metal used as sealant barriers for
spacecraft walls and pumping liquid propellants
[NASA-CASE-INP-08881] c17 N71-28747
Spiral groove seal --- for hydraulic rotating
shaft
[NASA-CASE-LEW-10326-3] c15 N74-10474
- PUMPS**
Piezoelectric pump for supplying fluid at high
frequencies to gyroscope fluid suspension system
[NASA-CASE-INP-05429] c26 N71-21824
Vapor-liquid separator design with vapor driven
pump for separated liquid pumping for
application in propellant transfer
[NASA-CASE-INP-04042] c15 N71-23023
Automatically reciprocating, high pressure pump
for use in spacecraft cryogenic propellants
[NASA-CASE-INP-04731] c15 N71-24042
Development and characteristics of variable
displacement fluid pump for transforming
hydraulic pressures
[NASA-CASE-MPS-20830] c15 N71-30028
Pumping and metering dual piston system and
monitor for reaction chamber constituents
[NASA-CASE-GSC-10218-1] c15 N72-21465
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c15 N74-27904
Solar powered pump
[NASA-CASE-NPO-13567-1] c37 N75-22746
- PUNCHED CARDS**
Describing device for flagging punched business
cards
[NASA-CASE-XLA-02705] c08 N71-15908
Handling tool for printed circuit cards
[NASA-CASE-MPS-20453] c15 N71-29133
- PUNCHES**
Punch and die device for forming convolution
series in thin gage metal hemispheres
[NASA-CASE-INP-05297] c15 N71-23811
- PURGING**
Carbon dioxide purge systems to prevent
condensation in spaces between cryogenic fuel
tanks and hypersonic vehicle skin
[NASA-CASE-XLA-01967] c31 N70-42015
Developing high pressure gas purification and
filtration system for use in test operations
of space vehicles
[NASA-CASE-MPS-12806] c14 N71-17588
Fluid transferring system design for purging
toxic, corrosive, or noxious fluids and fumes
from materials handling equipment for
cleansing and accident prevention
[NASA-CASE-XMS-01905] c12 N71-21089
Device for back purging thrust engines
[NASA-CASE-XMS-04826] c28 N71-28849
- PURIFICATION**
Apparatus and method capable of receiving large
quantity of high pressure helium, removing
impurities, and discharging at received pressure
[NASA-CASE-INP-06888] c15 N71-24044
Purification apparatus for vaporization and
fractional distillation of liquids
[NASA-CASE-INP-08124] c15 N71-27184
Water purification process
[NASA-CASE-ARC-10643-2] c51 N75-13506
- PURITY**
Synthesis of high purity dianilinosilanes
[NASA-CASE-INP-06409] c06 N71-23230
- PUSH-PULL AMPLIFIERS**
Frequency modulated oscillator
[NASA-CASE-MPS-23181-1] c33 N75-21518
- PYROLYTIC GRAPHITE**
Multislit film cooled pyrolytic graphite rocket
nozzle
[NASA-CASE-INP-04389] c28 N71-20942
- PYROLYTIC MATERIALS**
Design, development, and characteristics of
ablation structures
[NASA-CASE-XMS-01816] c33 N71-15623
- PYROMETERS**
Sensor device with switches for measuring
surface recession of charring and noncharring
ablaters
[NASA-CASE-XLA-01781] c14 N65-39975
- PYROTECHNICS**
Energy source with tantalum capacitors in
parallel and miniature silver oxide button
cells for initiating pyrotechnic devices on
spacecraft and rocket vehicles
[NASA-CASE-LAR-10367-1] c03 N70-26817
Development and characteristics of squib
actuated explosive disconnect for spacecraft
release from launch vehicle
[NASA-CASE-NPO-11330] c33 N73-26958
- Q**
- Q SWITCHED LASERS**
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c33 N74-27425
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c16 N74-34010
- Q VALUES**
Design of active RC network capable of operating
at high Q values with reduced sensitivity to
gain amplification and number of passive
components
[NASA-CASE-ARC-10042-2] c10 N72-11256
- QUADRATURES**
Automatic quadrature control and measuring system
--- using optical coupling circuitry
[NASA-CASE-MPS-21660-1] c14 N74-21017
- QUALITATIVE ANALYSIS**
Ultraviolet chromatographic detector for
quantitative and qualitative analysis of
compounds
[NASA-CASE-HQN-10756-1] c14 N72-25428
Analysis of volatile organic compounds ---
quantitative and qualitative analysis of trace
amounts in gas samples
[NASA-CASE-MSC-14428-1] c06 N74-19776
- QUANTITATIVE ANALYSIS**
Mixed liquid and vapor phase analyzer design
with thermocouples for relative heat transfer
measurement
[NASA-CASE-NPO-10691] c14 N71-26199

Quantitative liquid measurements in container by resonant frequencies
[NASA-CASE-XNP-02500] c18 N71-27397

Ultraviolet chromatographic detector for quantitative and qualitative analysis of compounds
[NASA-CASE-HQN-1C756-1] c14 N72-25428

Nondispersive gas analysis using radiation detection for quantitative analysis
[NASA-CASE-ARC-10308-1] c06 N72-31141

Analysis of volatile organic compounds --- quantitative and qualitative analysis of trace amounts in gas samples
[NASA-CASE-MSC-14428-1] c06 N74-19776

QUANTUM THEORY
The 3-5 photocathode with nitrogen doping for increased quantum efficiency --- using acceptor materials
[NASA-CASE-NPO-12134-1] c33 N75-16745

QUARTZ
Ultraviolet filter of thorium fluoride and cryolite on quartz base
[NASA-CASE-XNP-02340] c23 N69-24332

QUARTZ LAMPS
High intensity heat and light unit containing quartz lamp elements protectively positioned to withstand severe environmental stress
[NASA-CASE-XLA-00141] c09 N70-33312

Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c15 N74-23066

R

BACKS (FRAMES)
Design and development of test stand system for supporting test items in vacuum chamber
[NASA-CASE-MFS-21362] c11 N73-20267

Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c32 N74-27397

RADAR ANTENNAS
Interferometric tuning acquisition and tracking radar antenna system
[NASA-CASE-XMS-09610] c07 N71-24625

Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c09 N74-32674

Highly efficient antenna system using a corrugated horn and scanning hyperboloid reflector
[NASA-CASE-NPO-13568-1] c33 N75-14964

RADAR EQUIPMENT
Spacecraft transponder and ground station radar system for mapping planetary surfaces
[NASA-CASE-NPO-11001] c07 N72-21118

RADAR IMAGERY
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c32 N75-26206

RADAR RANGE
Radar signal receiver arrangement for extending range and increasing signal to noise ratio
[NASA-CASE-XNP-0C748] c07 N70-36911

RADAR RECEIVERS
Polarization diversity monopulse tracking receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864

RADAR RECEPTION
Radar signal receiver arrangement for extending range and increasing signal to noise ratio
[NASA-CASE-XNP-0C748] c07 N70-36911

RADAR REFLECTORS
Inflatable radar reflector unit - lightweight, highly reflective to electromagnetic radiation, and adaptable for erection and deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063

RADAR TRACKING
Tracking antenna system with array for synchronous satellite or ground based radar
[NASA-CASE-GSC-10553-1] c07 N71-19854

Polarization diversity monopulse tracking receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864

Monopulse tracking system with antenna array of three radiators for deriving azimuth and elevation indications
[NASA-CASE-XGS-01155] c10 N71-21483

Plastic sphere for radar tracking and calibration
[NASA-CASE-XLA-11154] c07 N72-21117

RADAR TRANSMITTERS
High resolution radar transmitting system for transmitting optical pulses to targets
[NASA-CASE-NPO-11426] c07 N73-26119

RADIAL FLOW
Radial heat flux transformer for use in heating and cooling processes
[NASA-CASE-NPO-10828] c33 N72-17948

RADIANCE
Method and apparatus for measuring shock layer radiation distribution about high velocity objects
[NASA-CASE-XAC-02970] c14 N69-39896

RADIANT COOLING
Direct radiation cooling of linear beam collector tubes
[NASA-CASE-XNP-09227] c15 N69-24319

High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875

RADIANT FLUX DENSITY
High intensity radiant energy pulse source for calibrating heat transfer gages with thermoluminescent shutter activation
[NASA-CASE-ARC-10178-1] c09 N72-17152

RADIANT HEATING
High intensity heat and light unit containing quartz lamp elements protectively positioned to withstand severe environmental stress
[NASA-CASE-XLA-00141] c09 N70-33312

High temperature source of thermal radiation
[NASA-CASE-XLE-00490] c33 N70-34545

Refractory filament series circuitry for radiant heater
[NASA-CASE-XLE-00387] c33 N70-34812

Unfired ceramic insulation for protection from radiant heating environments
[NASA-CASE-MFS-14253] c33 N71-24858

Solar energy trap
[NASA-CASE-MFS-22744-1] c44 N75-10586

RADIATION
Development of radiant energy sensor to detect the radiant energy wavelength bands from portions of radiating body
[NASA-CASE-ERC-10174] c14 N72-25409

Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
[NASA-CASE-NPO-11493] c14 N73-12447

Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c09 N74-29577

Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c25 N75-13053

RADIATION ABSORPTION
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c35 N75-30502

RADIATION COUNTERS
Particle detector for indicating incidence and energy of minute space particles
[NASA-CASE-XLA-00135] c14 N70-33322

Sensing method and device for determining orientation of space vehicle or satellite by using particle traps
[NASA-CASE-XGS-00466] c21 N70-34297

Solid state device for mapping flux and power in nuclear reactor cores
[NASA-CASE-XLE-00301] c14 N70-36808

Particle beam power density detection and measurement apparatus
[NASA-CASE-XLE-00243] c14 N70-38602

Automatic baseline stabilization for ionization detector used in gas chromatograph
[NASA-CASE-XNP-03128] c10 N70-41991

Method of forming thin window drifted silicon charged particle detector
[NASA-CASE-XLE-00808] c24 N71-10560

Development of dosimeter for measuring absorbed dose of high energy ionizing radiation
[NASA-CASE-XLA-03645] c14 N71-20430

Apparatus for detecting particle emission lower than noise level of multiplier tube
[NASA-CASE-XLA-07813] c14 N72-17328

Radiation or charged particle detector and amplifier

- [NASA-CASE-NPO-12128-1] c14 N73-32317
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c14 N74-26949
- RADIATION DAMAGE**
Addition of group 3 elements to silicon semiconductor material for increased resistance to radiation damage in solar cells
[NASA-CASE-XLE-02798] c26 N71-23654
Recovering efficiency of solar cells damaged by environmental radiation through thermal annealing
[NASA-CASE-XGS-04047-2] c03 N72-11062
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c09 N74-27682
- RADIATION DETECTORS**
Radiation source and detection system for measuring amount of liquid inside tanks independently of liquid configuration
[NASA-CASE-MSC-12280] c27 N71-16348
Detection instrument for light emitted from ATP biochemical reaction
[NASA-CASE-XGS-05534] c23 N71-16355
Circuit design for determining amount of photomultiplier tube light detection utilizing variable current source and dark current signals of opposite polarity
[NASA-CASE-XMS-03478] c14 N71-21040
Attitude sensor with scanning mirrors for detecting orientation of space vehicle with respect to planet
[NASA-CASE-XLA-00793] c21 N71-22880
Mosaic semiconductor radiation detector and position indicator systems engineering for low energy particles
[NASA-CASE-XGS-03230] c14 N71-23401
Nondispersive gas analysis using radiation detection for quantitative analysis
[NASA-CASE-ARC-10308-1] c06 N72-31141
Radiation source tracker comprised of sectored matrix of detectors with output voltages corresponding to irradiance levels
[NASA-CASE-NPO-11686] c14 N73-25462
Radiation or charged particle detector and amplifier
[NASA-CASE-NPO-12128-1] c14 N73-32317
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c14 N74-15091
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c14 N74-18088
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c03 N74-29410
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c35 N75-19629
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c35 N75-23910
- RADIATION DISTRIBUTION**
Space simulator with uniform test region radiation distribution, adapted to simulate Venus solar radiations
[NASA-CASE-XNP-00459] c11 N70-38675
- RADIATION DOSAGE**
Development of dosimeter for measuring absorbed dose of high energy ionizing radiation
[NASA-CASE-XLA-03645] c14 N71-20430
- RADIATION EFFECTS**
Method for temperature compensating semiconductor gages by exposure to high energy radiation
[NASA-CASE-XLA-04555-1] c14 N71-25892
- RADIATION HARDENING**
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c24 N74-20329
- RADIATION MEASUREMENT**
Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
[NASA-CASE-NPO-11493] c14 N73-12447
- RADIATION MEASURING INSTRUMENTS**
Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
[NASA-CASE-XGS-08266] c14 N69-27432
- Infrared scanning system for maintaining spacecraft orientation with earth reference
[NASA-CASE-XLA-00120] c21 N70-33181
Multiple wavelength radiation measuring instrument for determining hot body or gas temperature
[NASA-CASE-XLE-00011] c14 N70-41946
Development of method for improving signal to noise ratio and accuracy of Wheatstone bridge type radiation measuring instrument
[NASA-CASE-XLA-02810] c14 N71-25901
Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
[NASA-CASE-NPO-11493] c14 N73-12447
Phototransistor with base collector junction diode for integration into photo sensor arrays
[NASA-CASE-MFS-20407] c09 N73-19235
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c14 N73-28488
Design of gamma ray spectrometer for measurement of intense radiation using Compton scattering effect
[NASA-CASE-MFS-21441-1] c14 N73-30392
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c14 N74-26949
- RADIATION PROTECTION**
Development of method for protecting large and oddly shaped areas from radiant and convective heat
[NASA-CASE-XNP-01310] c33 N71-28852
Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol
[NASA-CASE-MFS-20180] c16 N72-12440
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c09 N74-27682
- RADIATION SHIELDING**
Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
Describing hot filament type Bayard-Alpert ionization gage with ion collector buried or removed from grid structure
[NASA-CASE-XLA-07424] c14 N71-18482
Sealed housing for protecting electronic equipment against electromagnetic interference
[NASA-CASE-MSC-12168-1] c09 N71-18600
Internal labyrinth and shield structure to improve electrical isolation of propellant feed source from ion thruster
[NASA-CASE-LEW-10210-1] c28 N71-26781
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c15 N74-23066
- RADIATION SOURCES**
Sight switch using infrared source and sensor mounted beside eye
[NASA-CASE-XNP-03934] c09 N71-22985
Apparatus for obtaining isotropic irradiation on film emulsion from parallel radiation source
[NASA-CASE-MFS-20095] c24 N72-11595
Radiation source tracker comprised of sectored matrix of detectors with output voltages corresponding to irradiance levels
[NASA-CASE-NPO-11686] c14 N73-25462
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c09 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c33 N75-29318
- RADIATION SPECTRA**
Maksutov spectrograph for low light level research
[NASA-CASE-XLA-10402] c14 N71-29041
- RADIATION TOLERANCE**
Ultraviolet radiation resistant alkali-metal silicate coatings for temperature control of spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979
Doping silicon material with gadolinium to increase radiation resistance of solar cells
[NASA-CASE-XLE-02792] c26 N71-10607
Improving radiation resistance of silicon semiconductor junctions by doping with lithium
[NASA-CASE-XGS-07801] c09 N71-12513

- Radiation hardening of MOS devices by boron ---
for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c76 N75-25730
- RADIATIVE HEAT TRANSFER**
Heat flux sensor assembly with proviso for heat
shield to reduce radiative transfer between
sensor elements
[NASA-CASE-XMS-05909-1] c14 N69-27459
Capillary radiator for carrying heat transfer
liquid in planetary spacecraft structures
[NASA-CASE-XLE-03307] c33 N71-14035
Transient heat transfer gage for measuring total
radiant intensity from far ultraviolet and
ionized high temperature gases
[NASA-CASE-XNP-09802] c33 N71-15641
Construction and method of arranging plurality
of ion engines to form cluster thereby
increasing efficiency and control by
decreasing heat radiated to space
[NASA-CASE-XNP-02923] c28 N71-23081
- RADIATORS**
Development and characteristics of natural
circulation radiator for use with nuclear
power plants installed in lunar space stations
[NASA-CASE-XHQ-03673] c33 N71-29046
- RADIO ANTENNAS**
Low loss parasitic probe antenna for prelaunch
tests of spacecraft antennas
[NASA-CASE-XKS-09348] c09 N71-13521
VHF/UHF parasitic probe antenna for spacecraft
communication
[NASA-CASE-XKS-09340] c07 N71-24614
Development and characteristics of extensible
dipole antenna using deformable tubular
metallic strip element
[NASA-CASE-HQN-00937] c07 N71-28979
Highly efficient antenna system using a
corrugated horn and scanning hyperboloid
reflector
[NASA-CASE-NPO-13568-1] c33 N75-14964
- RADIO ASTRONOMY**
Synchronous detection system for detecting weak
radio astronomical signals
[NASA-CASE-XNP-09832] c30 N71-23723
- RADIO CONTROL**
Radio frequency controlled solid state switch
[NASA-CASE-ARC-10136-1] c09 N72-22202
- RADIO FREQUENCIES**
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c07 N69-24323
Automatic gain control amplifier system
[NASA-CASE-XMS-05307] c09 N69-24330
Method and apparatus for bowing of instrument
panels to improve radio frequency shielded
enclosure
[NASA-CASE-XNP-09422] c07 N71-19436
Development of automatic frequency
discriminators and control for phase lock loop
providing frequency preset capabilities
[NASA-CASE-XNP-08665] c10 N71-19467
System generating sidereal frequency signals
from signals of standard solar frequency
without use of mixing operations or feedback
loops
[NASA-CASE-XGS-02610] c14 N71-23174
Radio frequency coaxial filter to provide dc
isolation and low frequency signal rejection
in audio range
[NASA-CASE-XGS-01418] c09 N71-23573
Variable frequency nuclear magnetic resonance
spectrometer providing drive signals over wide
frequency range and minimizing noise effects
[NASA-CASE-XNP-09830] c14 N71-26266
High efficiency transformerless amplitude
modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430
Technique and equipment for sputtering using
apertured electrode and pulsed substrate bias
[NASA-CASE-LEW-10920-1] c17 N73-24569
Radio frequency source resistance measuring
instruments of varied design
[NASA-CASE-NPO-11291-1] c14 N73-30388
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c14 N74-20019
Ion and electron detector for use in an ICR
spectrometer
[NASA-CASE-NPO-13479-1] c14 N74-32890
- RADIO FREQUENCY INTERFERENCE**
Radio frequency noise generator having microwave
slow-wave structure in gas discharge plasma
[NASA-CASE-XER-11019] c09 N71-23598
System for interference signal nulling by
polarization adjustment
[NASA-CASE-NPO-13140-1] c32 N75-24982
- RADIO FREQUENCY SHIELDING**
Gunn effect microwave diodes with RF shielding
[NASA-CASE-ERC-10119] c26 N72-21701
Process for making RF shielded cable connector
assemblies and resulting structures
[NASA-CASE-GSC-11215-1] c09 N73-28083
- RADIO RECEIVERS**
Radio receiver with array of independently
steerable antennas for deep space communication
[NASA-CASE-XLA-00901] c07 N71-10775
Development of optimum pre-detection diversity
combining receiving system adapted for use
with amplitude modulation, phase modulation,
and frequency modulation systems
[NASA-CASE-XGS-00740] c07 N71-23098
- RADIO RELAY SYSTEMS**
Satellite radio communication system with remote
steerable antenna
[NASA-CASE-XNP-02389] c07 N71-28900
- RADIO SIGNALS**
Erectable, inflatable, radio signal reflecting
passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309
Synchronous detection system for detecting weak
radio astronomical signals
[NASA-CASE-XNP-09832] c30 N71-23723
- RADIO STARS**
System generating sidereal frequency signals
from signals of standard solar frequency
without use of mixing operations or feedback
loops
[NASA-CASE-XGS-02610] c14 N71-23174
- RADIO TELEMETRY**
Digital telemetry system apparatus to reduce
tape recorder wow and flutter noise during
playback
[NASA-CASE-XGS-01812] c07 N71-23001
- RADIO TRANSMITTERS**
Vehicle locating system utilizing AM
broadcasting station carriers
[NASA-CASE-NPO-13217-1] c32 N75-26194
- RADIO WAVES**
Gunn effect microwave diodes with RF shielding
[NASA-CASE-ERC-10119] c26 N72-21701
- RADIOACTIVE ISOTOPES**
Thermally cascaded thermoelectric generator with
radioisotopic heat source
[NASA-CASE-NPO-10753] c03 N72-26031
Protected isotope heat source --- for
atmospheric reentry protection and heat
transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876
- RADIOBIOLOGY**
Production of I-123 for use as
radiopharmaceutical for low radiation exposure
[NASA-CASE-LEW-10518-1] c24 N72-33681
- RADIOGRAPHY**
Nondestructive radiographic tests of resistance
welds
[NASA-CASE-XNP-02588] c15 N71-18613
Method and system for in vivo measurement of
bone tissue
[NASA-CASE-MSC-14276-1] c54 N75-21948
- RADIOMETERS**
Miniaturized radiometer for detecting low level
thermal radiation
[NASA-CASE-XLA-04556] c14 N69-27484
Black body radiometer design with temperature
sensing and cavity heat source cone winding
[NASA-CASE-XNP-09701] c14 N71-26475
Black body radiometer having isothermally
surrounded cavity for ultraviolet, visible,
and infrared radiation
[NASA-CASE-NPO-10810] c14 N71-27323
Thermoelectric radiometer using polymer film
as capacitor
[NASA-CASE-ARC-10138-1] c14 N72-24477
Development of radiant energy sensor to detect
the radiant energy wavelength bands from
portions of radiating body
[NASA-CASE-ERC-10174] c14 N72-25409
Development of radiometric sensor to warn
aircraft pilots of region of clear air
turbulence along flight path

- [NASA-CASE-ERC-10081] c14 N72-28437
Radiometric measuring system for solar activity
and atmospheric attenuation and emission
[NASA-CASE-ERC-10276] c14 N73-26432
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c14 N74-27861
- RAIN**
Precipitation detector and mechanism for
stopping and restarting machinery at
initiation and cessation of rain
[NASA-CASE-XLA-02619] c10 N71-26334
- RAMJET ENGINES**
Telescoping-spike supersonic nozzle for turbojet
or ramjet engines
[NASA-CASE-XLE-00005] c28 N70-39899
- RANDOM LOADS**
Fatigue testing device applying random discrete
load levels to test specimen and applicable to
aircraft structures
[NASA-CASE-XLA-02131] c32 N70-42003
- RANDOM NOISE**
Circuits for amplitude limiting of random noise
inputs
[NASA-CASE-NPO-10169] c10 N71-24844
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excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c23 N74-31148
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[NASA-CASE-MSC-14131-1] c33 N75-19515
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to determine distance between moving airborne
vehicle and fixed ground station
[NASA-CASE-XNP-01501] c21 N70-41930
- RANGEFINDING**
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equipment and spacecraft transponders
[NASA-CASE-XMS-05454-1] c07 N71-12391
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[NASA-CASE-NPO-10066] c09 N71-18598
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system for distance measurements
[NASA-CASE-NPO-11194] c08 N72-25209
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nu-type ranging system
[NASA-CASE-NPO-11707] c07 N73-25161
Orbital and entry tracking accessory for globes
--- to provide range requirements for reentry
vehicles to any landing site
[NASA-CASE-LAR-10626-1] c14 N74-21015
- RARE EARTH COMPOUNDS**
Including didymium hydrate in nickel hydroxide
of positive electrode of storage batteries to
increase ampere hour capacity
[NASA-CASE-XGS-03505] c03 N71-10608
- RARE GASES**
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c36 N75-32441
- RAREFIED GASES**
Magnetically controlled plasma accelerator
capable of ignition in low density gaseous
environment
[NASA-CASE-XLA-00327] c25 N71-29184
- RATES (PER TIME)**
Apparatus and digital technique for coding rate
data
[NASA-CASE-LAR-10128-1] c08 N73-20217
- RC CIRCUITS**
RC transistor circuit to indicate each pulse of
pulse train and occurrence of nth pulse
[NASA-CASE-XNP-00906] c09 N70-41655
Device utilizing RC rate generators for
continuous slow speed measurement
[NASA-CASE-XNP-02966] c10 N71-24863
Digital data handling circuits for pulse
amplifiers
[NASA-CASE-XNP-01068] c10 N71-28739
Design of active RC network capable of operating
at high Q values with reduced sensitivity to
gain amplification and number of passive
components
[NASA-CASE-ARC-10042-2] c10 N72-11256
Active RC filter networks and amplifiers for
deep space magnetic field measurement
[NASA-CASE-XAC-05462-2] c10 N72-17171
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circuit, and positive feedback
[NASA-CASE-ARC-10020] c10 N72-17172
- Multiloop RC active filter network with low
parameter sensitivity and low amplifier gain
[NASA-CASE-ARC-10192] c09 N72-21245
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wheatstone bridge with RC circuit
[NASA-CASE-NPO-11304] c14 N73-26430
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c33 N75-19520
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controlling reaction jets of spacecraft
[NASA-CASE-XLA-04063] c31 N71-33160
- REACTION WHEELS**
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[NASA-CASE-XGS-02629] c14 N71-21082
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[NASA-CASE-GSC-10555-1] c21 N71-27324
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minimizing power distribution and perturbation
in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597
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[NASA-CASE-XLE-00724] c14 N70-34669
Solid state device for mapping flux and power in
nuclear reactor cores
[NASA-CASE-XLE-00301] c14 N70-36808
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[NASA-CASE-NPO-10542] c09 N72-27228
- REACTOR DESIGN**
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[NASA-CASE-HQN-10841-1] c73 N75-22108
- REACTOR MATERIALS**
A zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c26 N75-26087
- REACTOR TECHNOLOGY**
Nuclear reactor control rod assembly with
improved driving mechanism
[NASA-CASE-XLE-00298] c22 N70-34501
- READOUT**
Flow angle sensor and remote readout system for
use with cryogenic fluids
[NASA-CASE-XLE-04503] c14 N71-24864
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double-throw switches by readout indications
[NASA-CASE-XLA-08799] c10 N71-27272
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flow rate and frequency of respiration and
expiration cycles in real time
[NASA-CASE-MSC-13436-1] c05 N73-32015
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[NASA-CASE-MFS-21087-1] c14 N74-17153
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[NASA-CASE-LAR-11206-1] c23 N74-30118
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[NASA-CASE-NPO-13465-1] c71 N75-13593
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[NASA-CASE-MFS-22537-1] c35 N75-27328
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[NASA-CASE-MFS-22060-1] c35 N75-29380
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[NASA-CASE-MSC-12259-1] c07 N70-12616
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[NASA-CASE-NPO-11593-1] c07 N73-28012
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[NASA-CASE-NPO-11628-1] c07 N73-30113
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 [NASA-CASE-XMS-06061] c05 N71-23317
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 [NASA-CASE-GSC-10614-1] c09 N72-11224
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 [NASA-CASE-NPO-J1317-2] c16 N74-13205
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 Ejectable underwater sound source recovery assembly
 [NASA-CASE-LAR-10595-1] c15 N74-16135
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 [NASA-CASE-XMP-00389] c31 N70-34176
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 [NASA-CASE-XMP-03169] c31 N71-15675
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 [NASA-CASE-XLA-00195] c02 N70-38009
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 [NASA-CASE-XLE-10529] c14 N69-23191
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 [NASA-CASE-XNP-02713] c10 N69-39888
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 [NASA-CASE-ARC-10101-1] c09 N71-33109
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 [NASA-CASE-XMS-02371] c05 N70-42000
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 [NASA-CASE-XLA-01787] c11 N71-16028
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 [NASA-CASE-MFS-21046-1] c14 N73-27377
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 [NASA-CASE-XLA-01400] c07 N70-41331
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 [NASA-CASE-XLA-01127] c07 N70-41372
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 [NASA-CASE-XLA-01552] c07 N71-11284
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 [NASA-CASE-XLA-01791] c14 N71-22991
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 [NASA-CASE-XLA-04901] c31 N71-24315
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 [NASA-CASE-LAR-10574-1] c11 N73-13257
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 [NASA-CASE-LAR-10549-1] c31 N73-13898
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 [NASA-CASE-XNP-08840] c23 N71-16365
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[NASA-CASE-XLA-00138] c31 N70-37981
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[NASA-CASE-XGS-09190] c31 N71-16102
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[NASA-CASE-XMS-00370] c17 N71-20941
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[NASA-CASE-MPS-20710] c11 N72-23215
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[NASA-CASE-XNP-04338] c17 N71-23046
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[NASA-CASE-XNP-03063] c17 N71-23365
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[NASA-CASE-XLE-03432] c33 N71-24145
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[NASA-CASE-XLE-03940] c18 N71-26153
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[NASA-CASE-XLE-10910] c18 N71-29040
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[NASA-CASE-XLE-03940-2] c17 N72-28536
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[NASA-CASE-LEW-11169-1] c15 N74-18131
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[NASA-CASE-NPO-13435-1] c23 N74-28134
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[NASA-CASE-XNP-02654] c10 N70-42032
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[NASA-CASE-XMF-01096] c10 N71-16030
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[NASA-CASE-XLE-00164] c15 N70-36411
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[NASA-CASE-XLE-00150] c28 N70-41818
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[NASA-CASE-XLE-00685] c28 N70-41992
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[NASA-CASE-XLE-04857] c28 N71-23968
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[NASA-CASE-NPO-11707] c07 N73-25161
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[NASA-CASE-GSC-10186] c08 N71-33110
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[NASA-CASE-XLE-03925] c18 N71-22894

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[NASA-CASE-XLA-04251] c18 N71-26100

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[NASA-CASE-GSC-10022-1] c10 N71-25882

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[NASA-CASE-GSC-10118-1] c07 N71-24621

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[NASA-CASE-XLA-00679] c15 N70-38601

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[NASA-CASE-GSC-10814-1] c03 N73-20039

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[NASA-CASE-NPO-13086-1] c15 N73-12495

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[NASA-CASE-XLE-02999] c15 N71-16052

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[NASA-CASE-XLE-00586] c15 N71-15968

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[NASA-CASE-MFS-20944] c15 N73-13466

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[NASA-CASE-LAR-11617-1] c35 N75-33370

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[NASA-CASE-XLA-02854] c15 N69-27490

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[NASA-CASE-XLA-00711] c03 N71-12258

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[NASA-CASE-LAR-10311-1] c16 N73-16536

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[NASA-CASE-MFS-22022-1] c05 N74-10099

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[NASA-CASE-MFS-14405] c15 N72-28495

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[NASA-CASE-XLE-04503] c14 N71-24864

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[NASA-CASE-NPO-10143] c10 N71-26326

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[NASA-CASE-EBC-10081] c14 N72-28437

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[NASA-CASE-ABC-10097-2] c07 N73-25160

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[NASA-CASE-MFS-21470-1] c10 N74-19870

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observer-controlled object with a target
[NASA-CASE-MFS-23052-1] c09 N75-25965
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for lunar exploration and convertible to
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ROCKET-BORNE INSTRUMENTS

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ROTATION

Semilinear bearing comprising two rows of roller bearings separated by spherical bearings and permitting rotational and translational movement
[NASA-CASE-XLA-02809] c15 N71-22982

Mechanical actuator wherein linear motion changes to rotational motion
[NASA-CASE-XGS-04548] c15 N71-24045

Positioning mechanism for converting translatory motion into rotary motion
[NASA-CASE-NPO-10679] c15 N72-21462

ROTOR BLADES (TURBOMACHINERY)

Locking device for retaining turbine rotor blades on turbine wheel
[NASA-CASE-XNP-00816] c28 N71-28928

Blade vibration damping pins for turbomachinery
[NASA-CASE-XLE-00155] c28 N71-29154

Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c15 N74-11300

Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c28 N74-28226

ROTOR SPEED

Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-MFS-20385] c09 N71-24904

ROTORS

Multistage, multiple reentry, single rotor, axial flow turbine
[NASA-CASE-XLE-00085] c28 N70-39895

Describing angular position and velocity sensing apparatus
[NASA-CASE-XGS-05680] c14 N71-17585

Microwave waveguide switch with rotor position control
[NASA-CASE-XNP-06507] c09 N71-23548

Electromagnetic braking arrangement for controlling rotor rotation in electric motor
[NASA-CASE-XNP-06936] c15 N71-24695

Rotary vane attenuator with two stators and intermediary rotor, using resistive and orthogonally disposed cards
[NASA-CASE-NPO-11418-1] c14 N73-13420

Process for welding compressor and turbine blades to rotors and discs of jet engines
[NASA-CASE-LEW-10533-1] c15 N73-28515

Brushless dc motor with wound rotor
[NASA-CASE-NPO-13437-1] c09 N74-27688

RUBBER

Rubber composition for expulsion bladders and diaphragms for use with hydrazine
[NASA-CASE-NPO-11433] c18 N71-31140

RUBBER COATINGS

Intumescent paint containing nitrile rubber for fire protection
[NASA-CASE-ARC-10196-1] c18 N73-13562

RUBY

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992

RUBY LASERS

Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol
[NASA-CASE-MFS-20180] c16 N72-12440

RUNWAY ALIGNMENT

Magnetic method for detection of aircraft position relative to runway
[NASA-CASE-ARC-10179-1] c21 N72-22619

RUNWAY LIGHTS

Retractable runway lights
[NASA-CASE-XLA-00119] c11 N70-33329

RUPTURING

Knife structure for controlling rupture of shock tube diaphragms
[NASA-CASE-XAC-00731] c11 N71-15960

S

SAFETY DEVICES

Helmet and torso tiedown mechanism for shortening pressure suits upon inflation
[NASA-CASE-XMS-00784] c05 N71-12335

Positive locking check valve for stopping reversed flow
[NASA-CASE-XMS-00310] c15 N71-22706

Description of protective device for providing safe operating conditions around work piece in machine or metal working tool

[NASA-CASE-XLE-01092] c15 N71-22797
Velocity limiting safety system for motor driven research vehicle

[NASA-CASE-XLA-07473] c15 N71-24895
Device for generating and controlling combustion products for testing of fire detection system

[NASA-CASE-GSC-11095-1] c14 N72-10375
Restraint torso for increased mobility and reduced physiological effects while wearing pressurized suits

[NASA-CASE-MSC-12397-1] c05 N72-25119
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding

[NASA-CASE-LAR-10941-1] c15 N74-21057
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft

[NASA-CASE-LAR-10753-1] c02 N74-30421
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c05 N75-25915

Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c20 N75-32166

SALT BATHS

Application techniques for protecting materials during salt bath brazing
[NASA-CASE-XLE-00046] c15 N70-33311

SAMARIUM

Gadolinium or samarium doped-silicon semiconductor material with resistance to radiation damage for use in solar cells
[NASA-CASE-XLE-10715] c26 N71-23292

SAMPLERS

Portable vacuum probe surface sampler for sampling large surface areas with relatively light loading densities of microorganisms
[NASA-CASE-LAR-10623-1] c14 N73-30395

Automatic bio waste sampling
[NASA-CASE-MSC-14640-1] c54 N75-13536

SAMPLING

Impact bit for cutting, collecting, and storing samples such as lunar rock cuttings
[NASA-CASE-XNP-01412] c15 N70-42034

Design and development of fluid sample collector
[NASA-CASE-XMS-06767-1] c14 N71-20435

Design and development of two types of atmosphere sampling chambers
[NASA-CASE-NPO-11373] c13 N72-25323

Digital to analog converter for sampled signal reconstruction
[NASA-CASE-MSC-12458-1] c08 N73-32081

Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c15 N74-23060

Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c15 N74-23069

Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c35 N75-12272

SANDWICH STRUCTURES

Sandwich panel structure for removing heat from shield between hot and cold areas
[NASA-CASE-XLA-00349] c33 N70-37979

Particle detector for measuring micrometeoroid velocity in space
[NASA-CASE-XLA-00495] c14 N70-41332

Capacitor sandwich structure containing metal sheets of known thickness for counting penetration rates of meteoroids
[NASA-CASE-XLE-01246] c14 N71-10797

Technique for making foldable, inflatable, plastic honeycomb core panels for use in building and bridge structures, light and radio wave reflectors, and spacecraft
[NASA-CASE-XLA-03492] c15 N71-22713

Punch and die device for forming convolution series in thin gage metal hemispheres
[NASA-CASE-XNP-05297] c15 N71-23811

SAPPHIRE

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-2] c15 N74-34002

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992

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Monopole antenna system for maximum omnidirectional efficiency for use on satellites
[NASA-CASE-XLA-00414] c07 N70-38200

SATELLITE ATTITUDE CONTROL

SUBJECT INDEX

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- SATELLITE ATTITUDE CONTROL**
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- Design and development of satellite despun device [NASA-CASE-XNP-08523] c31 N71-20396
- Utilization of momentum devices for forming attitude control and damping system for spacecraft [NASA-CASE-XLA-02551] c21 N71-21708
- Gravity gradient attitude control system with gravity gradiometer and reaction wheels for artificial satellite attitude control [NASA-CASE-GSC-10555-1] c21 N71-27324
- Method and apparatus for providing active attitude control for spacecraft by converting any attitude motion of vehicle into simple rotational motion [NASA-CASE-HQN-10439] c21 N72-21624
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- Inflation system for balloon type satellites [NASA-CASE-XGS-03351] c31 N71-16081
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Design and development of flexible joint for pressure suits
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Epoxy resin sealing device for electrochemical cells in high vacuum environments
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Foil seal between parts moving relative to each other
[NASA-CASE-XLE-05130] c15 N69-21362
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[NASA-CASE-XNP-03378] c03 N71-11051
Epoxy resin sealing device for electrochemical cells in high vacuum environments
[NASA-CASE-XGS-02630] c03 N71-22974
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[NASA-CASE-XMS-01625] c15 N71-23022
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[NASA-CASE-XNP-03290] c15 N71-23256
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[NASA-CASE-XGS-03864] c15 N69-24320
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[NASA-CASE-XLE-00101] c15 N70-33376
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[NASA-CASE-XGS-00587] c15 N70-35087
Thin walled pressure test vessel using low-melting alloy-filled joint to attach shell to heads
[NASA-CASE-XLE-04677] c15 N71-10577
Fluid seal formed by flexible disk on rotating shaft to retain lubricating oils around shaft
[NASA-CASE-XLE-05130-2] c15 N71-19570
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[NASA-CASE-NFS-20075] c09 N71-26133
Liquid-vapor interface seal design for turbine rotating shafts including helical and molecular pumps and liquid cooling of mercury vapor
[NASA-CASE-XNP-02862-1] c15 N71-26294
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[NASA-CASE-XLE-10326-4] c15 N74-15125
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-XLE-10698-1] c15 N74-21063
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- frangible materials
[NASA-CASE-XLA-01494] c15 N71-24164
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[NASA-CASE-XMS-09635] c05 N71-24623
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[NASA-CASE-LAR-10170-1] c15 N74-11301
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Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c05 N75-25915
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Fabrication of curved reflector segments for solar mirror
[NASA-CASE-XLE-08917] c15 N71-15597
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[NASA-CASE-XNP-00479] c14 N70-34794
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[NASA-CASE-XLE-01533] c11 N71-10777
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[NASA-CASE-XNP-00908] c14 N70-40238
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[NASA-CASE-XLA-00686] c31 N70-34135
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[NASA-CASE-XLA-00678] c31 N70-34296
Manned space station launched in packaged condition and self erecting in orbit
[NASA-CASE-XLA-00258] c31 N70-38676
Foldable conduit capable of springing back as self erecting structural member
[NASA-CASE-XLE-00620] c32 N70-41579
Antenna design with self erecting mesh reflector
[NASA-CASE-XGS-09190] c31 N71-16102
Self erecting parabolic reflector design for use in space
[NASA-CASE-XMS-03454] c09 N71-20658
- SELF LUBRICATING MATERIALS**
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Self lubricating gears and other mechanical parts having surface adapted to frictional contact
[NASA-CASE-NFS-14971] c15 N71-24984
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A self-lubricating bearing
[NASA-CASE-NFS-23009-1] c37 N75-12328
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Hand-held maneuvering unit for propulsion and attitude control of astronauts in zero or reduced gravity environment
[NASA-CASE-XMS-05304] c05 N71-12336
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[NASA-CASE-NFS-20130] c28 N71-27585
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Self-generating optical frequency waveguide
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Modification of one man life raft
[NASA-CASE-LAR-10241-1] c05 N74-14845
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[NASA-CASE-XNP-06032] c09 N69-21926
Semiconductor p-n junction on needle apex to provide stress and strain sensor
[NASA-CASE-XLA-04980] c09 N69-27422
Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
[NASA-CASE-ERC-10072] c09 N70-11148

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[NASA-CASE-XGS-00381] c09 N70-34819
- Method of forming thin window drifted silicon charged particle detector
[NASA-CASE-XLE-00808] c24 N71-10560
- Doping silicon material with gadolinium to increase radiation resistance of solar cells
[NASA-CASE-XLE-02792] c26 N71-10607
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[NASA-CASE-ERC-10138] c26 N71-14354
- Voltage tunable Gunn effect semiconductor for microwave generation
[NASA-CASE-XER-07894] c09 N71-18721
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[NASA-CASE-NPO-16194] c03 N71-20407
- Signaling summary alarm circuit with semiconductor switch for faulty contact indications
[NASA-CASE-XLE-03061-1] c10 N71-24798
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[NASA-CASE-XLA-04555-1] c14 N71-25892
- Development and characteristics of fluid oscillator analog to digital converter with variable frequency controlled by signal passing through conditioning circuit
[NASA-CASE-LEW-10345-1] c10 N71-25899
- Volume displacement transducer for leak detection in hermetically sealed semiconductor devices
[NASA-CASE-ERC-10033] c14 N71-26672
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[NASA-CASE-ERC-10150] c14 N71-28992
- Semiconductor device manufacture using refractory dielectrics as diffusant masks and interconnection insulating materials
[NASA-CASE-XER-06476-1] c26 N72-17820
- Single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c09 N72-22199
- Development of process for forming insulating layer between two electrical conductor or semiconductor materials
[NASA-CASE-LEW-10489-1] c15 N72-25447
- Multiterminal Gunn-type semiconductor microwave generator for producing stable signals
[NASA-CASE-XER-07895] c26 N72-25679
- Miniature piezoelectric semiconductor transducer with in situ stress coupling
[NASA-CASE-ERC-10087-2] c14 N72-31446
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[NASA-CASE-GSC-10791-1] c15 N73-14469
- Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c09 N74-33740
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[NASA-CASE-XNP-01960] c09 N71-23027
- Miniature electromechanical junction transducer operating on piezoelectric effect and utilizing epoxy for stress coupling component
[NASA-CASE-ERC-10087] c14 N71-27334
- Resin for protecting p-n semiconductor junction surface
[NASA-CASE-ERC-10339-1] c18 N73-30532
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[NASA-CASE-XNS-04614] c15 N69-21460
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[NASA-CASE-MSC-12259-1] c07 N70-12616
- Improved semiconductor multivibrator circuit which approaches 100 percent efficiency
[NASA-CASE-XAC-00942] c10 N71-16042
- Fabrication of sintered impurity semiconductor brushes for electrical energy transfer
[NASA-CASE-XNP-01016] c26 N71-17818
- Binding layer of semiconductor particles by electrodeposition
[NASA-CASE-XNP-01959] c26 N71-23043
- Gadolinium or samarium doped-silicon semiconductor material with resistance to radiation damage for use in solar cells
[NASA-CASE-XLE-10715] c26 N71-23292
- Characteristics of infrared photodetectors manufactured from semiconductor material irradiated by electron beam
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[NASA-CASE-ARC-10042-2] c10 N72-11256
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- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c24 N75-30260
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[NASA-CASE-XLE-00208] c28 N70-34294
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[NASA-CASE-XLA-01290] c02 N70-42016
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- Describing apparatus for separating gas from cryogenic liquid under zero gravity and for venting gas from fuel tank
[NASA-CASE-XLE-00586] c15 N71-15968
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[NASA-CASE-XLA-00415] c15 N71-16079
- Development of liquid separating system using capillary device connected to flexible bladder storage chamber
[NASA-CASE-XMS-13052] c14 N71-20427
- Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
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- Device for removing air from water for use in life support systems in manned space flight
[NASA-CASE-XLA-8914] c15 N73-12492
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[NASA-CASE-LAR-10194-1] c12 N74-30608
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[NASA-CASE-LAR-11110-1] c34 N75-26282
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[NASA-CASE-NPO-13327-1] c35 N75-23910
- Particulate and solar radiation stable coating
for spacecraft
[NASA-CASE-LAR-10805-2] c37 N75-29431

SOLAR RADIO EMISSION

System generating sidereal frequency signals from signals of standard solar frequency without use of mixing operations or feedback loops

[NASA-CASE-XGS-02610] c14 N71-23174

SOLAR REFLECTORS

Foldable, double concave and parabolic reflector system for solar ray concentration

[NASA-CASE-XLA-04622] c03 N70-41580

Modifying existing solar cells for temperature control

[NASA-CASE-NPO-10109] c03 N71-11049

Fabrication of curved reflector segments for solar mirror

[NASA-CASE-XLE-08917] c15 N71-15597

Thermal pump-compressor for converting solar energy

[NASA-CASE-XLA-00377] c33 N71-17610

Forming mold for polishing and machining curved solar magnesium reflector with reinforcing ribs

[NASA-CASE-XLE-08917-2] c15 N71-24836

Inorganic thermal control and solar reflector coatings

[NASA-CASE-MFS-20011] c18 N72-22566

Low cost solar energy collection system

[NASA-CASE-NPO-13579-1] c44 N75-28519

Lightweight reflector assembly and method

[NASA-CASE-NPO-13707-1] c74 N75-32894

SOLAR SENSORS

Sensor consisting of photocells mounted on pyramidal base for improved pointing accuracy of planetary trackers

[NASA-CASE-XNP-04180] c07 N69-39736

Spacecraft attitude control system using solar and earth sensors, gyroscopes, and jet actuators

[NASA-CASE-XNP-00465] c21 N70-35395

Sun tracker with rotatable plane-parallel plate and two photocells

[NASA-CASE-XGS-01159] c21 N71-10678

Solar sensor with coarse and fine sensing elements for matching preirradiated cells on degradation rates

[NASA-CASE-XLA-01584] c14 N71-23269

Sun direction detection system --- for use in controlling the attitude of a vehicle

[NASA-CASE-NPO-13722-1] c19 N75-33169

SOLAR SIMULATORS

Lens assembly for solar furnace or solar simulator

[NASA-CASE-XNP-04111] c14 N71-15622

High powered arc electrodes --- producing solar simulator radiation

[NASA-CASE-LEW-11162-1] c09 N74-12913

SOLDERED JOINTS

Soldering device particularly suited to making high quality wiring joints for aerospace engineering utilizing capillary attraction to regulate flow of solder

[NASA-CASE-XLA-08911] c15 N71-27214

SOLDERING

Hydrazine monoperfluoro alkanoate solder flux leaving corrosion resistant coating, for metals such as copper

[NASA-CASE-XNP-03459-2] c18 N71-15688

Metal soldering with hydrazine monoperfluoro alkanoate for corrosion resistant coatings

[NASA-CASE-XNP-03459] c15 N71-21078

Method of plating copper on aluminum to permit conventional soldering of structural aluminum bodies

[NASA-CASE-XLA-08966-1] c17 N71-25903

Device for resistance soldering electrical leads to solder cups of multiple terminal block

[NASA-CASE-GSC-10913] c15 N72-22491

Development of electrical system for indicating optimum contact between electrode and metal surface to permit improved soldering operation

[NASA-CASE-KSC-10242] c15 N72-23497

SOLDERS

Solder coating process for printed copper circuit protection

[NASA-CASE-XNP-01599] c09 N71-20705

SOLENOID VALVES

Solenoid two-step valve for bipropellant flow rate control to rocket engine

[NASA-CASE-XMS-04890-1] c15 N70-22192

Automatic recording McLeod gage with three electrodes and solenoid valve connection

[NASA-CASE-XLE-03280] c14 N71-23093

Solenoid valve including guide for armature and valve member

[NASA-CASE-GSC-10607-1] c15 N72-20442

Remote fire stack igniter --- with solenoid-controlled valve

[NASA-CASE-MFS-21675-1] c33 N74-33378

Automatically operable self-leveling load table

[NASA-CASE-MFS-22039-1] c09 N75-12968

SOLENOIDS

Water cooled solenoid capable of producing magnetic field intensities up to 100 kilogauss

[NASA-CASE-XNP-01951] c09 N70-41929

Automatic power supply circuit design for driving inductive loads and minimizing power consumption including solenoid example

[NASA-CASE-NPO-10716] c09 N71-24892

Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites

[NASA-CASE-GSC-11560-1] c09 N74-20861

Sprag solenoid brake --- development and operations of electrically controlled brake

[NASA-CASE-MFS-21846-1] c15 N74-26976

SOLID LUBRICANTS

Bonded solid lubricant coatings of calcium fluoride and binder for high temperature stability

[NASA-CASE-XMS-00259] c18 N70-36400

Solid lubricant applied to porous roller bearings prior to use in ultrahigh vacuum

[NASA-CASE-XLE-09527] c15 N71-17688

Preparation of inorganic solid film lubricants with long wear life and stability in aerospace environments

[NASA-CASE-XMP-03988] c15 N71-21403

Development of rolling element bearing for operation in ultrahigh vacuum environment

[NASA-CASE-XLE-09527-2] c15 N71-26189

SOLID PROPELLANT IGNITION

Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant

[NASA-CASE-XLE-00207] c28 N70-33375

Method for igniting solid propellant rocket motors by injecting hypergolic fluids

[NASA-CASE-XLE-01988] c27 N71-15634

SOLID PROPELLANT ROCKET ENGINES

Spherical solid propellant rocket engine design

[NASA-CASE-XLA-00105] c28 N70-33331

Mandrel for shaping solid propellant rocket fuel into engine casing

[NASA-CASE-XLA-00304] c27 N70-34783

Spherical solid propellant rocket engine having abrupt burnout

[NASA-CASE-XHQ-01897] c28 N70-35381

Grain configuration for solid propellant rocket engines

[NASA-CASE-XGS-03556] c27 N70-35534

Solid propellant rocket vehicle thrust control method and apparatus

[NASA-CASE-XNP-00217] c28 N70-38181

Steerable solid propellant rocket motor adapted to effect payload orientation as multistage rocket stage or reduce velocity as retrorocket

[NASA-CASE-XNP-00234] c28 N70-38645

Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel

[NASA-CASE-XLA-04126] c28 N71-26779

Electrical failure detector in solid rocket propellant motor insulation against thermal degradation by fuel grain

[NASA-CASE-XMP-03968] c14 N71-27186

Solid propellant rocket engine with venting system to control effective nozzle throat area

[NASA-CASE-XNP-03282] c28 N72-20758

Thin walled nozzle with insulative nonablative coating for solid propellant rocket engines

[NASA-CASE-NPO-11458] c28 N72-23810

Characteristics of solid propellant rocket engine with controlled rate of thrust buildup operating in vacuum environment

[NASA-CASE-NPO-11559] c28 N73-24784

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[NASA-CASE-MFS-22734-1] c18 N75-19329

SOLID PROPELLANTS

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SOLID ROCKET BINDERS

SUBJECT INDEX

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[NASA-CASE-IMP-00923] c28 N70-36802
- Photographic method for measuring viscoelastic strain in solid propellants and other materials
[NASA-CASE-IMP-01153] c32 N71-17645
- Ethylene oxide sterilization and encapsulating process for sterile preservation of instruments and solid propellants
[NASA-CASE-IMP-05763] c14 N71-20461
- Chemical process for production of polyisobutylene compounds and application as solid rocket propellant binder
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- SOLID ROCKET BINDERS**
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[NASA-CASE-IMP-09744] c27 N71-16392
- SOLID ROCKET PROPELLANTS**
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[NASA-CASE-XLE-03494] c27 N71-21819
- Solid propellant stabilizer containing nitroguanidine
[NASA-CASE-NPO-12000] c27 N72-25699
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[NASA-CASE-NPO-12015] c27 N73-16764
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[NASA-CASE-NPO-11975-1] c27 N74-33209
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[NASA-CASE-XAC-00435] c09 N70-35440
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[NASA-CASE-XLE-00301] c14 N70-36808
- Solid state operational integrator
[NASA-CASE-NPO-10230] c09 N71-12520
- Microwave power receiving antenna solving heat dissipation problems by construction of elements as heat pipe devices
[NASA-CASE-MPS-20333] c09 N71-13486
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[NASA-CASE-IMP-01753] c08 N71-22897
- Solid state television camera system consisting of monolithic semiconductor mosaic sensor and molecular digital readout systems
[NASA-CASE-IMP-06092] c07 N71-24612
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[NASA-CASE-IMP-06505] c10 N71-24799
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[NASA-CASE-ERC-10088] c26 N71-25490
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[NASA-CASE-ERC-10032] c10 N71-25900
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- Development of thermal to electric power conversion system using solid state switches of electrical currents to load for Seebeck effect compensation
[NASA-CASE-NPO-11388] c03 N72-23048
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- SOUND TRANSDUCERS**
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[NASA-CASE-XGS-01654] c31 N71-24750
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[NASA-CASE-IMP-03169] c31 N71-15675
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- Radio receiver with array of independently steerable antennas for deep space communication
[NASA-CASE-XLA-00901] c07 N71-10775
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[NASA-CASE-XGS-00679] c10 N71-21473
- Development of antenna system for spin stabilized communication satellite for simultaneous reception and transmission of data
[NASA-CASE-XGS-02607] c31 N71-23009
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[NASA-CASE-NPO-13545-1] c32 N75-26207
- SPACE ENVIRONMENT SIMULATION**
- Simulating voltage-current characteristic curves of solar cell panel with different operational parameters
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- Method and feed system for separating and orienting liquid and vapor phases of liquid propellants in zero gravity environment
[NASA-CASE-XLE-01182] c27 N71-15635
- Cable suspension and inclined walkway system for simulating reduced or zero gravity environments
[NASA-CASE-XLA-01787] c11 N71-16028
- Space environment simulation system for measuring spacecraft electric field strength in plasma sheath
[NASA-CASE-XLE-02038] c09 N71-16086
- Optical characteristics measuring apparatus
[NASA-CASE-IMP-08840] c23 N71-16365
- Omnidirectional anisotropic molecular trap, used with vacuum pump to simulate space environments for testing spacecraft components
[NASA-CASE-XGS-00783] c30 N71-17788
- Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
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[NASA-CASE-MPS-10555] c11 N71-19494
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[NASA-CASE-XLE-08511] c18 N71-23710
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[NASA-CASE-KSC-10198] c11 N71-28629
- Illumination system design for use as sunlight simulator in space environment simulators with multiple light sources reflected to single virtual source
[NASA-CASE-HQN-10781] c23 N71-30292
- Pressure regulator for space suit worn underwater to simulate space environment for testing and experimentation
[NASA-CASE-MPS-20332] c05 N72-20097
- SPACE ERECTABLE STRUCTURES**
- Self-erectable space structures of flexible foam for application in planetary orbits
[NASA-CASE-XLA-00686] c31 N70-34135
- Manned space station collapsible for launching and self-erectable in orbit
[NASA-CASE-XLA-00678] c31 N70-34296
- Manned space station launched in packaged condition and self erecting in orbit
[NASA-CASE-XLA-00258] c31 N70-38676
- Collapsible, space erectable loop antenna system for space vehicle
[NASA-CASE-IMP-00437] c07 N70-40202
- Erectable, inflatable, radio signal reflecting passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309
- Deployment system for flexible wing with rigid superstructure
[NASA-CASE-XLA-01220] c02 N70-41863
- Capillary radiator for carrying heat transfer liquid in planetary spacecraft structures
[NASA-CASE-XLE-03307] c33 N71-14035
- Describing apparatus for manufacturing operations in low and zero gravity environments of orbital space flight
[NASA-CASE-MPS-20410] c15 N71-19214
- Space erectable rollout solar array of arcuate solar panels furled on tapered drum for spacecraft storage during launch
[NASA-CASE-NPO-10188] c03 N71-20273
- Self erecting parabolic reflector design for use in space
[NASA-CASE-XMS-03454] c09 N71-20658
- Pneumatic cantilever beams and platform for space erectable structure
[NASA-CASE-XLA-01731] c32 N71-21045
- Hydraulic actuator design for space deployment of heat radiators
[NASA-CASE-MSC-11817-1] c15 N71-26611
- Space expandable tether device for use as passageway between two docked spacecraft
[NASA-CASE-XMS-10993] c15 N71-28936
- Expandable space frames with high expansion to collapse ratio
[NASA-CASE-EBC-10365-1] c31 N73-32749
- SPACE EXPLORATION**
- Self-propelled vehicle with wheel, track laying, and walking capability for exploratory exploration
[NASA-CASE-NPO-11366] c11 N73-26238
- Simulator for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MPS-23052-1] c09 N75-25965
- SPACE FLIGHT**
- Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
- Television simulation for aircraft and space flight
[NASA-CASE-IFR-03107] c09 N71-19449
- SPACE MAINTENANCE**
- System for removing and repairing spacecraft control thrusters by use of portable air locks
[NASA-CASE-MPS-20325] c28 N71-27095
- SPACE MANUFACTURING**
- Space mirrors
[NASA-CASE-MSC-12611-1] c23 N74-33142
- Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c12 N75-24774
- SPACE MISSIONS**
- Planetary atmospheric investigation using split trajectory dual flyby mode
[NASA-CASE-XAC-08494] c30 N71-15990
- Elimination of tracking occultation problems occurring during continuous monitoring of interplanetary missions by using Earth orbiting communications satellite
[NASA-CASE-XAC-06029-1] c31 N71-24813
- Design and development of space shuttle system for delivering payload to earth orbit or celestial orbit
[NASA-CASE-MSC-12391] c30 N73-12884
- SPACE NAVIGATION**
- Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references
[NASA-CASE-IMP-00684] c21 N71-21688
- Momentum wheel design for spacecraft attitude control and magnetic drum and head system for data storage
[NASA-CASE-NPO-11481] c21 N73-13644
- Method for producing reticles for use in outer space
[NASA-CASE-GSC-11188-2] c21 N73-19630
- SPACE ORIENTATION**
- Sensing method and device for determining orientation of space vehicle or satellite by using particle traps
[NASA-CASE-XGS-00466] c21 N70-34297
- SPACE PROBES**
- Spaceflight meteoroid composition experiment --- characteristics of device for capturing meteoroid particles in space
[NASA-CASE-MSC-12423-1] c14 N74-32885
- SPACE RENDEZVOUS**
- Method and apparatus for connecting two spacecraft with probe of one inserted in rocket engine nozzle of other spacecraft
[NASA-CASE-MPS-11133] c31 N71-16222

SPACE SHUTTLE ORBITERS

Variable dihedral shuttle orbiter --- for flight at hypersonic and subsonic speeds
[NASA-CASE-LAR-10706-1] c18 N75-16613
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[NASA-CASE-MSC-12619-1] c39 N75-21671

SPACE SHUTTLES

Designing spacecraft for flight into space, atmospheric reentry, and landing at selected sites
[NASA-CASE-XAC-02058] c02 N71-16087
Design and development of space shuttle system for delivering payload to earth orbit or celestial orbit
[NASA-CASE-MSC-12391] c30 N73-12884
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[NASA-CASE-MSC-12433] c31 N73-14854
Improved silicide coatings for refractory metals employed in space shuttles and gas turbine engine components
[NASA-CASE-LFW-11179-1] c17 N73-22474
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c18 N75-27041

SPACE SIMULATORS

Space simulator with uniform test region radiation distribution, adapted to simulate Venus solar radiations
[NASA-CASE-XNP-00459] c11 N70-38675
Variable geometry manned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings
[NASA-CASE-XLA-03691] c31 N71-15674
Development of method and equipment for testing heat radiative properties of material under controlled environmental conditions
[NASA-CASE-MPS-20096] c14 N71-30026

SPACE STATIONS

Manned space station launched in packaged condition and self erecting in orbit
[NASA-CASE-XLA-00258] c31 N70-38676
Multiple in-line docking capability having intermeshing docking turrets for rotating space stations
[NASA-CASE-MPS-20855-1] c31 N72-25853
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[NASA-CASE-LAR-10629-1] c35 N75-33367

SPACE SUITS

Astronaut restraint suit for high acceleration protection
[NASA-CASE-XAC-00405] c05 N70-41819
Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 N71-11194
Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195
One piece human garment for use as contamination proof garment
[NASA-CASE-MSC-12206-1] c05 N71-17599
Space environmental work simulator with portions of space suit mounted to vacuum chamber wall
[NASA-CASE-XMF-07488] c11 N71-18773
Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439
Conditioning suit for normal function of astronaut cardiovascular system in gravity environment
[NASA-CASE-XLA-02898] c05 N71-20268
Space suit using nonflexible material with low leakage and providing protection against thermal extremes, physical punctures, and radiation with high mobility articulation
[NASA-CASE-XAC-07043] c05 N71-23161
Sealing evacuation port and evacuating vacuum container such as space jackets
[NASA-CASE-XMF-03290] c15 N71-23256
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[NASA-CASE-MSC-12109] c18 N71-26285

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[NASA-CASE-XMS-09652-1] c05 N71-26333
Automatic control device for regulating inlet water temperature of liquid cooled spacesuit
[NASA-CASE-MSC-13917-1] c05 N72-15098
Pressure regulator for space suit worn underwater to simulate space environment for testing and experimentation
[NASA-CASE-MPS-20332] c05 N72-20097
Space suit with improved waist and torso movement
[NASA-CASE-ARC-10275-1] c05 N72-22092
Underwater space suit pressure control regulator
[NASA-CASE-MPS-20332-2] c05 N73-25125
Automatic temperature control for liquid cooled space suit
[NASA-CASE-ARC-10599-1] c05 N73-26071
Process for developing flame retardant elastomeric composition textiles for use in space suits
[NASA-CASE-MSC-14331-1] c18 N73-27501
Intra- and extravehicular life support space suite for Apollo astronauts
[NASA-CASE-12609-1] c05 N73-32012

SPACE VEHICLE CHECKOUT PROGRAM

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[NASA-CASE-XMF-03248] c11 N71-10604
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[NASA-CASE-XKS-08012-2] c31 N71-15566
Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-MPS-12806] c14 N71-17588

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[NASA-CASE-XGS-01475] c03 N71-11058
Attitude sensor with scanning mirrors for detecting orientation of space vehicle with respect to planet
[NASA-CASE-XLA-00793] c21 N71-22880
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[NASA-CASE-XGS-03390] c03 N71-23187
Low mass ionizing device for use in electric thrust spacecraft engines
[NASA-CASE-XNP-01954] c28 N71-28850
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[NASA-CASE-MPS-20620] c11 N72-27262
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[NASA-CASE-LAR-10805-1] c18 N74-16246
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[NASA-CASE-MSC-12615-1] c15 N74-30916

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[NASA-CASE-XKS-09348] c09 N71-13521
Millimeter wave antenna system for spacecraft use
[NASA-CASE-GSC-10949-1] c07 N71-28965
Low weight, integrated thermoelectric generator/antenna combination for spacecraft
[NASA-CASE-XER-09521] c09 N72-12136
Omnidirectional antenna array with circumferential slots for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c09 N72-25247
Purlable antenna for spacecraft
[NASA-CASE-NPO-11361] c07 N72-32169
Collapsible support for antenna reflector applied to installation of spacecraft antennas
[NASA-CASE-NPO-11751] c07 N73-24176

SPACECRAFT CABIN ATMOSPHERES

Thermal control wall panel with application to spacecraft cabins
[NASA-CASE-XLA-01243] c33 N71-22792
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MPS-20486-2] c18 N74-17283

SPACECRAFT COMMUNICATION

Synchronizing apparatus for multi-access satellite time division multiplex system
[NASA-CASE-XGS-05918] c07 N69-39974

- Phase shift data transmission system with pseudoc-noise synchronization code modulated with digital data into single channel for spacecraft communication
[NASA-CASE-XNP-00911] c08 N70-41961
- Design and development of tracking receiver for tracking satellites and receiving radio signal transmissions under adverse noise conditions
[NASA-CASE-XGS-08679] c10 N71-21473
- Microwave omnidirectional antenna for use on spacecraft
[NASA-CASE-XLA-03114] c09 N71-22888
- VHF/UHF parasitic probe antenna for spacecraft communication
[NASA-CASE-XKS-09340] c07 N71-24614
- System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
[NASA-CASE-NPO-10214] c10 N71-26577
- Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c09 N74-20864
- SPACECRAFT COMPONENTS**
- Rectangular electric conductors for conductor cables to withstand spacecraft vibration and controlled atmosphere
[NASA-CASE-MFS-14741] c09 N70-20737
- Vibration damping system operating in low vacuum environment for spacecraft mechanisms
[NASA-CASE-XMS-01620] c23 N71-15673
- Intermittent type silica gel adsorption refrigerator for providing temperature control for spacecraft components
[NASA-CASE-XNP-00920] c15 N71-15906
- Omnidirectional anisotropic molecular trap, used with vacuum pump to simulate space environments for testing spacecraft components
[NASA-CASE-XGS-00783] c30 N71-17788
- Spacecraft air lock system to provide ingress and egress of astronaut without subjecting vehicular environment to vacuum of space
[NASA-CASE-XLA-02050] c31 N71-22968
- Development and characteristics of docking structure and apparatus for spacecraft docking
[NASA-CASE-XNP-05941] c31 N71-23912
- Design and development of release mechanism for spacecraft components, releasable despin weights, and extensible gravity booms
[NASA-CASE-XGS-08718] c15 N71-24600
- Space environment simulator for testing spacecraft components under aerospace conditions
[NASA-CASE-NPO-10141] c11 N71-24964
- Design and development of spacecraft with outer shell structure heat shielding and built-in, removable excursion module
[NASA-CASE-MSC-13047-1] c31 N71-25434
- Electronic detection system for peak acceleration limits in vibrational testing of spacecraft components
[NASA-CASE-NPO-10556] c14 N71-27185
- Development of solid state polymer coating for obtaining thermal balance in spacecraft components
[NASA-CASE-XLA-01745] c33 N71-28903
- Development of apparatus for mounting scientific experiments in spacecraft to permit utilization without maneuvering spacecraft
[NASA-CASE-MSC-12372-1] c31 N72-25842
- Airlock
[NASA-CASE-MFS-20922-1] c15 N74-22136
- Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c32 N74-27397
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c18 N75-27041
- SPACECRAFT CONFIGURATIONS**
- Inflatable honeycomb panel element for lightweight structures usable in space stations and other construction
[NASA-CASE-XLA-00204] c32 N70-36536
- Lenticular vehicle with foldable aerodynamic control flaps and reaction jets for operation above and within earth's atmosphere
[NASA-CASE-XGS-00260] c31 N70-37924
- Stage separation system for spinning vehicles and payloads
[NASA-CASE-XLA-02132] c31 N71-10582
- Spacecraft configurations and aerodynamic characteristics of space shuttle systems with two reusable stages
[NASA-CASE-MSC-12433] c31 N73-14854
- Space vehicle
[NASA-CASE-MFS-22734-1] c18 N75-19329
- SPACECRAFT CONSTRUCTION MATERIALS**
- Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996
- Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
- SPACECRAFT CONTROL**
- Light sensitive digital aspect sensor for attitude control of earth satellites or space probes
[NASA-CASE-XGS-00359] c14 N70-34158
- Spacecraft attitude control system using solar and earth sensors, gyroscopes, and jet actuators
[NASA-CASE-XNP-00465] c21 N70-35395
- Multiple parachute system for landing control of Apollo type spacecraft
[NASA-CASE-XLA-00898] c02 N70-36804
- Attitude control device for space vehicles
[NASA-CASE-XNP-00294] c21 N70-36938
- Attitude orientation control of spin stabilized final stage space vehicles, using horizon scanners
[NASA-CASE-XLA-00281] c21 N70-36943
- Aerodynamic configuration of reentry vehicle heat shield to provide longitudinal and directional stability at hypersonic velocities
[NASA-CASE-XMS-04142] c31 N70-41631
- Star sensor system for roll attitude control of spacecraft
[NASA-CASE-XNP-01307] c21 N70-41856
- Photomultiplier detector of Canopus for spacecraft attitude control
[NASA-CASE-XNP-03914] c21 N71-10771
- Development of spacecraft experiment pointing and attitude control system
[NASA-CASE-XLA-05464] c21 N71-14132
- Development of attitude control system for spacecraft orientation
[NASA-CASE-XGS-04393] c21 N71-14159
- Drive mechanism for operating reactance attitude control system for aerospace bodies
[NASA-CASE-XNP-01598] c21 N71-15583
- Attitude detection system using stellar references for three-axis control and spin stabilized spacecraft
[NASA-CASE-XGS-03431] c21 N71-15642
- Large amplitude, linear inertial reference system of vibrating string type for spacecraft reference plane
[NASA-CASE-XAC-03107] c23 N71-16098
- Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-XNP-02923] c28 N71-23081
- Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
- Heated porous plug microthruster for spacecraft reaction jet controlled systems such as fuel flow regulation, propellant disassociation, and heat transfer augmentation
[NASA-CASE-GSC-10640-1] c28 N72-18766
- Development of thrust control system for application to control of aircraft and spacecraft
[NASA-CASE-MSC-13397-1] c21 N72-25595
- SPACECRAFT DESIGN**
- Lunar landing flight research vehicle
[NASA-CASE-XFP-00929] c31 N70-34966
- Design and configuration of manned space capsule
[NASA-CASE-XLA-01332] c31 N71-15664
- Development of spacecraft radiator cover
[NASA-CASE-MSC-12049] c31 N71-16080
- Method and apparatus for connecting two spacecraft with probe of one inserted in rocket engine nozzle of other spacecraft
[NASA-CASE-MFS-11133] c31 N71-16222
- Development and characteristics of protective coatings for spacecraft

- [NASA-CASE-XNP-02507] c31 N71-17679
Development and characteristics of self supporting space vehicle
[NASA-CASE-XLA-00117] c31 N71-17680
Multi-mission space vehicle module stage design
[NASA-CASE-XNP-01543] c31 N71-17730
Development and characteristics of docking structure and apparatus for spacecraft docking
[NASA-CASE-XNP-05941] c31 N71-23912
Design and development of spacecraft with outer shell structure heat shielding and built-in, removable excursion module
[NASA-CASE-MSC-13047-1] c31 N71-25434
Spacecraft design with single point aerodynamic and hydrodynamic stability for emergency transport of men from space station to splashdown
[NASA-CASE-MSC-13281] c31 N72-18859
Space vehicle
[NASA-CASE-MFS-22734-1] c18 N75-19329
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c37 N75-29431
- SPACECRAFT DOCKING**
Probe and drogue assembly for mechanical linking of two space vehicles
[NASA-CASE-XMS-03613] c31 N71-16346
Development and characteristics of docking structure and apparatus for spacecraft docking
[NASA-CASE-XNP-05941] c31 N71-23912
Latch for fastening spacecraft docking rings
[NASA-CASE-MSC-15474-1] c15 N71-26162
Multiple in-line docking capability having intermeshing docking turrets for rotating space stations
[NASA-CASE-MFS-20855-1] c31 N72-25853
High energy absorption docking system design for docking large spacecraft
[NASA-CASE-MFS-20863] c31 N73-26876
Development of spacecraft docking system for optical alignment of spacecraft using television camera system
[NASA-CASE-MSC-12559-1] c31 N73-26879
Latch mechanism
[NASA-CASE-MSC-12549-1] c15 N74-27903
A deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c18 N75-14818
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c18 N75-29160
- SPACECRAFT ELECTRONIC EQUIPMENT**
Equipment for testing of ground station ranging equipment and spacecraft transponders
[NASA-CASE-XMS-05454-1] c07 N71-12391
Describing apparatus used in vacuum deposition of thin film inductive windings for spacecraft microcircuitry
[NASA-CASE-XNP-01667] c15 N71-17647
Nose cone mounted heat resistant antenna comprising plurality of adjacent layers of silica not introducing paths of high thermal conductivity through ablative shield
[NASA-CASE-XMS-04312] c07 N71-22984
- SPACECRAFT ENVIRONMENTS**
Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
Quick disconnect latch and handle combination for mounting articles on walls or supporting bases in spacecraft under zero gravity conditions
[NASA-CASE-MFS-11132] c15 N71-17649
Dual solid cryogenics for spacecraft refrigeration insuring low temperature cooling for extended periods
[NASA-CASE-GSC-10188-1] c23 N71-24725
Dual stage check valve for cryogenic supply systems used in space flight environmental control system
[NASA-CASE-MSC-13587-1] c15 N73-30459
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c05 N74-17853
- SPACECRAFT GUIDANCE**
Automatic ejection valve for attitude control and midcourse guidance of space vehicles
[NASA-CASE-XNP-00676] c15 N70-38996
Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references
[NASA-CASE-XNP-00684] c21 N71-21688
Design and characteristics of device for sensing solar radiation and providing spacecraft attitude control to maintain direction with respect to incident radiation
[NASA-CASE-XNP-05535] c14 N71-23040
Inertial gimbal alignment system for spacecraft guidance
[NASA-CASE-XNP-01669] c21 N71-23289
Hermetically sealed vibration damper design for use in gimbal assembly of spacecraft inertial guidance system
[NASA-CASE-MSC-10959] c15 N71-26243
- SPACECRAFT INSTRUMENTS**
Mechanical coordinate converter for use with spacecraft tracking antennas
[NASA-CASE-XNP-00614] c14 N70-36907
Air bearings for spacecraft gyros
[NASA-CASE-XNP-00339] c15 N70-39896
Unfolding boom assembly with knuckle joints for positioning equipment for spacecraft
[NASA-CASE-XGS-00938] c32 N70-41367
Pressurized cell micrometeoroid detector
[NASA-CASE-XLA-00936] c14 N71-14996
Guidance analyzer having suspended spacecraft simulating sphere for astronavigation
[NASA-CASE-XNP-09572] c14 N71-15621
Inertial component clamping assembly design for spacecraft guidance and control system mounting
[NASA-CASE-XMS-02184] c15 N71-20813
Optical projector system for establishing optimum arrangement of instrument displays in aircraft, spacecraft, other vehicles, and industrial instrument consoles
[NASA-CASE-XNP-03853] c23 N71-21882
Combined optical attitude and altitude indicating instrument for use in aircraft or spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268
Spacecraft transponder and ground station radar system for mapping planetary surfaces
[NASA-CASE-NPO-11001] c07 N72-21118
Method and apparatus for providing active attitude control for spacecraft by converting any attitude motion of vehicle into simple rotational motion
[NASA-CASE-HQN-10439] c21 N72-21624
Design and development of thermomechanical pump for transmitting warming fluid through fluid circuit to control temperature of spacecraft instrumentation
[NASA-CASE-NPO-11417] c15 N73-24513
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c15 N74-21062
- SPACECRAFT LANDING**
Non-reusable kinetic energy absorber for application in soft landing of space vehicles
[NASA-CASE-XLE-00810] c15 N70-34861
Plastic foam generator for space vehicle instrument payload package flotation in water landing
[NASA-CASE-XLA-00838] c03 N70-36778
Device for use in descending spacecraft as altitude sensor for actuating deceleration retrorockets
[NASA-CASE-XMS-03792] c14 N70-41812
- SPACECRAFT LAUNCHING**
Three stage motion restraining mechanism for restraining and damping three dimensional vibrational movement of gimballed package during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694
Development and characteristics of squib actuated explosive disconnect for spacecraft release from launch vehicle
[NASA-CASE-NPO-11330] c33 N73-26958
- SPACECRAFT MODELS**
Space environment simulation system for measuring spacecraft electric field strength in plasma sheath
[NASA-CASE-XLE-02038] c09 N71-16086
- SPACECRAFT MODULES**
Radial module manned space station with artificial gravity environment
[NASA-CASE-XMS-01906] c31 N70-41373

- Multi-mission space vehicle module stage design
[NASA-CASE-XMF-01543] c31 N71-17730
- Design and development of spacecraft with outer shell structure heat shielding and built-in, removable excursion module
[NASA-CASE-MSC-13047-1] c31 N71-25434
- Development and characteristics of thermal control system for maintaining constant temperature within spacecraft module with wide variations of component heat transfer
[NASA-CASE-GSC-11018-1] c31 N73-30829
- SPACECRAFT POSITION INDICATORS**
- Device for determining relative angular position of spacecraft and radiating celestial body
[NASA-CASE-GSC-11444-1] c14 N73-28490
- Spacecraft attitude sensing system design with narrow field of view sensor rotating about spacecraft x-y axis
[NASA-CASE-GSC-10890-1] c21 N73-30640
- SPACECRAFT POWER SUPPLIES**
- Spacecraft battery seals
[NASA-CASE-XGS-03864] c15 N69-24320
- Electrical power system for space flight vehicles operating over extended periods
[NASA-CASE-XMF-00517] c03 N70-34157
- Lightweight, rugged, inexpensive satellite battery for producing electrical power from ionosphere using electrodes with different contact potentials
[NASA-CASE-XGS-01593] c03 N70-35408
- Design and development of electric generator for space power system
[NASA-CASE-XLE-04250] c09 N71-20446
- Monostable multivibrator for conserving power in spacecraft systems
[NASA-CASE-GSC-10082-1] c10 N72-20221
- Rectangular solar cell stacked panels to generate electrical power aboard spacecraft
[NASA-CASE-NPO-11771] c03 N73-20040
- Thermoelectric power system --- for outer planet space flight
[NASA-CASE-MFS-22002-1] c03 N74-18726
- Solar energy power system
[NASA-CASE-MFS-21628-2] c44 N75-29548
- SPACECRAFT PROPULSION**
- Colloidal particle generator for electrostatic engine for propelling space vehicles
[NASA-CASE-XLE-00817] c28 N70-33265
- Spacecraft trajectory correction propulsion system
[NASA-CASE-XNP-01104] c28 N70-39931
- Permanently magnetized ion engine casing construction for use in spacecraft propulsion systems
[NASA-CASE-XNP-06942] c28 N71-23293
- Development of voice operated controller for controlling reaction jets of spacecraft
[NASA-CASE-XLA-04063] c31 N71-33160
- SPACECRAFT RECOVERY**
- Assembly for opening flight capsule stabilizing and decelerating flaps with reference to capsule recovery
[NASA-CASE-XMF-00641] c31 N70-36410
- Method for deployment of flexible wing glider from space vehicle with minimum impact and loading
[NASA-CASE-XMS-00907] c02 N70-41630
- SPACECRAFT REENTRY**
- Manned space capsule configuration for orbital flight and atmospheric reentry
[NASA-CASE-XLA-00149] c31 N70-37938
- Event recorder with constant speed motor which rotates recording disk
[NASA-CASE-XLA-01832] c14 N71-21006
- SPACECRAFT SHIELDING**
- Development and characteristics of protective coatings for spacecraft
[NASA-CASE-XNP-02507] c31 N71-17679
- Double-wall isothermal cylinder containing heat transfer fluid thermal reservoir as spacecraft insulation cover
[NASA-CASE-MFS-20355] c33 N71-25353
- Binder stabilized zinc oxide pigmented coating for spacecraft thermal control
[NASA-CASE-XMF-07770-2] c18 N71-26772
- SPACECRAFT STABILITY**
- Satellite stabilization reaction wheel scanner
[NASA-CASE-XGS-02629] c14 N71-21082
- Development and characteristics of annular momentum control device for two axis stabilization of spacecraft
[NASA-CASE-LAR-11051-1] c21 N75-28646
- Attitude sensor
[NASA-CASE-LAR-10586-1] c14 N74-15089
- An improved system for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c31 N74-30311
- SPACECRAFT STRUCTURES**
- Collapsible, space erectable loop antenna system for space vehicle
[NASA-CASE-XMF-00437] c07 N70-40202
- Electro-optical system for maintaining two-axis alignment during milling operations on large tank-sections
[NASA-CASE-XMF-00908] c14 N70-40238
- Development of spacecraft radiator cover
[NASA-CASE-MSC-12049] c31 N71-16080
- Design and construction of satellite appendage tie-down cord
[NASA-CASE-XGS-02554] c31 N71-21064
- Development and characteristics of thermal sensitive panel for controlling ratio of solar absorptivity to surface emissivity for space vehicle temperature control
[NASA-CASE-XLA-07728] c33 N71-22890
- Space expandable tether device for use as passageway between two docked spacecraft
[NASA-CASE-XMS-10993] c15 N71-28936
- Delayed simultaneous appendage release mechanism for use on spacecraft equipped with despin mechanisms and releasable components
[NASA-CASE-GSC-10814-1] c03 N73-20039
- Development of composite structures for spacecraft to serve as anti-meteoroid device
[NASA-CASE-LAR-10788-1] c31 N73-20880
- Space vehicle system
[NASA-CASE-MSC-12561-1] c31 N74-33303
- Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c34 N75-12222
- SPACECRAFT TELEVISION**
- Electrically operated rotary shutter for television camera aboard spacecraft
[NASA-CASE-XNP-00637] c14 N70-40273
- Conversion system for transforming slow scan rate of Apollo TV camera on moon to fast scan of commercial TV
[NASA-CASE-XMS-07168] c07 N71-11300
- SPACECRAFT TRACKING**
- Spacecraft ranging system
[NASA-CASE-NPO-10066] c09 N71-18598
- Elimination of tracking occultation problems occurring during continuous monitoring of interplanetary missions by using Earth orbiting communications satellite
[NASA-CASE-XAC-06029-1] c31 N71-24813
- Tracking mount for laser telescope employed in tracking large rockets and space vehicles to give information regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627
- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c14 N74-21015
- SPACECREWS**
- Development and characteristics of inflatable structure to provide escape from orbit for spacecrews under emergency conditions
[NASA-CASE-XMS-06162] c31 N71-28851
- SPALLATION**
- Production of iodine isotope by high energy bombardment of cesium heat pipe causing spallation reaction
[NASA-CASE-LEW-11390-2] c24 N73-20763
- SPARK GAPS**
- Spark gap type protective circuit for fast sensing and removal of overvoltage conditions
[NASA-CASE-XAC-08981] c09 N69-39897
- Mechanism for measuring nanosecond time differences between luminous events using streak camera
[NASA-CASE-XLA-01987] c23 N71-23976
- Sustained arc ignition system --- across a spark gap
[NASA-CASE-LEW-12444-1] c33 N75-25056
- SPARK IGNITION**
- High temperature spark plug for igniting liquid rocket propellants
[NASA-CASE-XLE-00660] c28 N70-39925

- Sustained arc ignition system --- across a spark gap
[NASA-CASE-LEW-12444-1] c33 N75-25056
- SPARK PLUGS**
High temperature spark plug for igniting liquid rocket propellants
[NASA-CASE-XLE-00660] c28 N70-39925
- SPATIAL DISTRIBUTION**
Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles
[NASA-CASE-NPO-10185] c10 N71-26339
- SPATIAL FILTERING**
Photographic film restoration system using Fourier transformation lenses and spatial filter
[NASA-CASE-HSC-12448-1] c14 N72-20394
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c16 N74-34010
- SPECTRAL REFLECTANCE**
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c14 N74-23040
- SPECTROMETERS**
Spectrometer using photoelectric effect to obtain spectral data
[NASA-CASE-XNP-04161] c14 N71-15599
Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects
[NASA-CASE-XNP-09830] c14 N71-26266
Maksutov spectrograph for low light level research
[NASA-CASE-XLA-10402] c14 N71-29041
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c14 N73-28491
Design of gamma ray spectrometer for measurement of intense radiation using Compton scattering effect
[NASA-CASE-MFS-21441-1] c14 N73-30392
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c14 N74-15091
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c14 N74-23040
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c14 N74-32890
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c35 N75-19613
Frequency scanning particle size spectrometer
[NASA-CASE-NPO-13606-1] c35 N75-19627
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c33 N75-26245
- SPECTROPHOTOMETERS**
Spectrophotofluorometer with 3-dimensional display to identify fluorescence spectra of carcinogenic and noncarcinogenic hydrocarbons
[NASA-CASE-XGS-01231] c14 N70-41676
Particle size spectrometer and refractometer
[NASA-CASE-NPO-13614-1] c35 N75-19628
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c35 N75-22688
- SPECTROSCOPIC ANALYSIS**
Cylindrical reflector for resolving wide angle light beam from telescope into narrow beam for spectroscopic analysis
[NASA-CASE-XGS-08269] c23 N71-26206
- SPECTRUM ANALYSIS**
Spectrometer using photoelectric effect to obtain spectral data
[NASA-CASE-XNP-04161] c14 N71-15599
Emission spectroscopy method for contamination monitoring of inert gas metal arc welding
[NASA-CASE-XNP-02039] c15 N71-15871
Method and apparatus for high resolution power spectrum analysis
[NASA-CASE-NPO-10748] c08 N72-20177
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c71 N75-13593
- SPEECH RECOGNITION**
Speech analyzer --- which provides information regarding amplitude, frequency, and phase of a speech waveform
[NASA-CASE-GSC-11898-1] c32 N75-22563
- SPEED CONTROL**
System for maintaining motor at predetermined speed using digital pulses
[NASA-CASE-XMF-06892] c09 N71-24805
Optimal control system for automatic speed regulation of electric driven motor vehicle
[NASA-CASE-NPO-11210] c11 N72-20244
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c15 N74-23070
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c09 N75-24758
- SPEED REGULATORS**
Feedback control for direct current motor to achieve constant speed under varying loads
[NASA-CASE-MFS-14610] c09 N71-28886
- SPHERES**
Guidance analyzer having suspended spacecraft simulating sphere for astronavigation
[NASA-CASE-XNP-09572] c14 N71-15621
Plastic sphere for radar tracking and calibration
[NASA-CASE-XLA-11154] c07 N72-21117
- SPHERICAL SHELLS**
Hollow spherical electrode for shielding dielectric junction between high voltage conductor and insulator
[NASA-CASE-XLE-03778] c09 N69-21542
Development of mechanical device for measuring distance of point within sphere from surface of sphere
[NASA-CASE-XLA-06683] c14 N72-28436
- SPHERICAL TANKS**
Gauge for measuring quantity of liquid in spherical tank in reduced gravity
[NASA-CASE-XHS-06236] c14 N71-21007
- SPHERICAL WAVES**
Electrical device for developing converging spherical shock waves
[NASA-CASE-MFS-20890] c14 N72-22439
- SPIKE NOZZLES**
Constructing fluid spike nozzle to eliminate heat transfer and high temperature problems inherent in physical spikes
[NASA-CASE-XGS-01143] c31 N71-15647
- SPIN DYNAMICS**
Nutation damper for use on spinning body
[NASA-CASE-GSC-11205-1] c15 N73-25513
- SPIN REDUCTION**
Optical scanner mounted on rotating support structure with method of compensating for image or satellite rotation
[NASA-CASE-XGS-02401] c14 N69-27485
Bolt-latch mechanism for releasing despin weights from space vehicle
[NASA-CASE-XLA-00679] c15 N70-38601
Stretch Yo-Yo mechanism for reducing initial spin rate of space vehicle
[NASA-CASE-XGS-00619] c30 N70-40016
Stage separation system for spinning vehicles and payloads
[NASA-CASE-XLA-02132] c31 N71-10582
Flexible turnstile antenna system for reducing nutation in spin-oriented satellites
[NASA-CASE-XMF-00442] c31 N71-10747
- SPIN STABILIZATION**
Dynamic precession damping of spin-stabilized vehicles by using rate gyroscope and angular accelerometer
[NASA-CASE-XLA-01989] c21 N70-34295
Attitude orientation control of spin stabilized final stage space vehicles, using horizon scanners
[NASA-CASE-XLA-00281] c21 N70-36943
Attitude detection system using stellar references for three-axis control and spin stabilized spacecraft
[NASA-CASE-XGS-03431] c21 N71-15642
Spin phase synchronization of cartwheel satellite in polar orbit
[NASA-CASE-XGS-05579] c31 N71-15676
High velocity guidance and spin stabilization gyro controlled jet reaction system for launch vehicle payloads
[NASA-CASE-XLA-01339] c31 N71-15692
Passive dual spin misalignment compensators --- gyro stabilized device
[NASA-CASE-GSC-11479-1] c21 N74-28097

- Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c02 N74-30421
- SPIRAL WRAPPING**
Adjustable spiral wire winding device
[NASA-CASE-XMS-02383] c15 N71-15918
- SPIRALS (CONCENTRATORS)**
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c15 N74-10474
- SPIROMETERS**
Compact bellows spirometer for high speed and high altitude space travel
[NASA-CASE-XAR-01547] c05 N69-21473
- SPLINTS**
Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-XMF-06589] c05 N71-23159
- SPORES**
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c15 N74-13178
- SPOT WELDS**
Controlled arc spot welding method
[NASA-CASE-XMF-00392] c15 N70-34814
Automatic closed circuit television arc guidance control for welding joints
[NASA-CASE-MFS-13046] c07 N71-19433
Electric resistance spot welding and brazing for producing metal bonds with superior mechanical and structural characteristics
[NASA-CASE-LAR-11072-1] c15 N73-20535
- SPRAYED COATINGS**
Plasma spraying gun for forming diffusion bonded metal or ceramic coatings on substrates
[NASA-CASE-XLE-01604-2] c15 N71-15610
Production and application of sprayable fiber reinforced ablation material
[NASA-CASE-XLA-04251] c18 N71-26100
Metal plating process employing spraying of metallic power/peening particle mixture
[NASA-CASE-GSC-11163-1] c15 N73-32360
- SPRAYERS**
External device for liquid spray cooling of gas turbine blades
[NASA-CASE-XLE-00037] c28 N70-33372
Adhesive spray process for attaching biomedical skin electrodes
[NASA-CASE-XPR-07658-1] c05 N71-26293
Apparatus for liquid spray cooling of turbine blades
[NASA-CASE-XLE-00027] c33 N71-29152
- SPRAYING**
Aircraft wheel spray drag alleviator for dual tandem landing gear
[NASA-CASE-XLA-01583] c02 N70-36825
- SPREADING**
Tool attachment for spreading or moving away loose elements from terminal posts during winding of filamentary elements
[NASA-CASE-XMF-02107] c15 N71-10809
- SPRINGS (ELASTIC)**
Belleville spring assembly with elastic guides having low hysteresis
[NASA-CASE-XNP-09452] c15 N69-27504
Multiple Belleville spring assembly with even load distribution
[NASA-CASE-XNP-06840] c15 N70-38225
Switching mechanism with energy stored in coil spring
[NASA-CASE-XGS-00473] c03 N70-38713
Load cell protection device using spring-loaded breakaway mechanism
[NASA-CASE-XMS-06782] c32 N71-15974
Vibration isolation system, using coaxial helical compression springs
[NASA-CASE-NPO-11012] c15 N72-11391
- SPUTTERING**
Deposition method for epitaxial beta SiC films having high degree of crystallographic perfection
[NASA-CASE-ERC-10120] c26 N69-33482
Development of procedure for producing thin transparent films of zinc-oxide on transparent refractory substrate
[NASA-CASE-FRC-10019] c15 N73-12487
- Technique and equipment for sputtering using apertured electrode and pulsed substrate bias
[NASA-CASE-LEW-10920-1] c17 N73-24569
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c28 N74-31269
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c37 N75-19684
- SQUARE WAVES**
High speed phase detector design indicating phase relationship between two square wave input signals
[NASA-CASE-XNP-01306-2] c09 N71-24596
- SQUARES (MATHEMATICS)**
Apparatus for computing square roots
[NASA-CASE-XGS-04768] c08 N71-19437
- SQUIBS**
Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922
- STABILITY TESTS**
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c16 N74-15146
- STABILIZATION**
Electro-optical stabilization of calibrated light source
[NASA-CASE-MSC-12293-1] c14 N72-27411
System for controlling torque buildup in suspension of gondola connected to balloon by parachute shroud lines
[NASA-CASE-GSC-11077-1] c02 N73-13008
Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004
Journal bearings
[NASA-CASE-LEW-11076-4] c15 N74-18134
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c76 N75-25730
- STABILIZED PLATFORMS**
Hydraulic drive mechanism for leveling isolation platforms
[NASA-CASE-XMS-03252] c15 N71-10658
- STABILIZERS**
Design and development of satellite despin device
[NASA-CASE-XMF-08523] c31 N71-20396
- STABILIZERS (AGENTS)**
Solid propellant stabilizer containing nitroguanidine
[NASA-CASE-NPO-12000] c27 N72-25699
- STABILIZERS (FLUID DYNAMICS)**
Assembly for opening flight capsule stabilizing and decelerating flaps with reference to capsule recovery
[NASA-CASE-XMF-00641] c31 N70-36410
Mechanical stabilization system for VTOL aircraft
[NASA-CASE-XLA-06339] c02 N71-13422
Attitude stabilizer for nonguided missile or vehicle with respect to trajectory
[NASA-CASE-ARC-10134] c30 N72-17873
Inflatable stabilizing system for use on life raft to reduce rocking and preclude capsizing
[NASA-CASE-MSC-12393-1] c02 N73-26006
An externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c15 N74-34882
- STABLE OSCILLATIONS**
Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASE-XMS-05562-1] c09 N69-39986
- STACKS**
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c33 N74-33378
- STAGE SEPARATION**
Stage separation using remote control release of joint with explosive insert
[NASA-CASE-XLA-02854] c15 N69-27490
Piezoelectric means for missile stage separation indication and stage initiation
[NASA-CASE-XLA-00791] c03 N70-39930
Space vehicle stage coupling and quick release separation mechanism
[NASA-CASE-XLA-01441] c15 N70-41679

- Stage separation system for spinning vehicles and payloads
[NASA-CASE-XLA-02132] c31 N71-10582
- Payload/spent rocket engine case separation system
[NASA-CASE-XLA-05369] c31 N71-15687
- Separation mechanism for use between stages of multistage rocket vehicles
[NASA-CASE-XLA-06188] c15 N71-22874
- Development of remotely controlled shaped charge for lateral displacement of rocket stages after separation
[NASA-CASE-XLA-04804] c31 N71-23008
- Electrical circuit selection device for simulating stage separation of flight vehicle
[NASA-CASE-XKS-04631] c10 N71-23663
- Frangible connecting link suitable for rocket stage separation
[NASA-CASE-MSC-11849-1] c15 N72-22488
- STAGNATION PRESSURE**
- Flow meter for measuring stagnation pressure in boundary layer around high speed flight vehicle
[NASA-CASE-XPR-02007] c12 N71-24692
- Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c14 N74-32878
- STAGNATION TEMPERATURE**
- Measuring conductive heat flow and thermal conductivity of laminar gas stream in cylindrical plug to simulate atmospheric reentry
[NASA-CASE-XLE-00266] c14 N70-34156
- STAINLESS STEELS**
- Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-MFS-07369] c15 N71-20443
- Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c15 N74-15130
- Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c33 N74-19584
- STAR TRACKERS**
- Star sensor system for roll attitude control of spacecraft
[NASA-CASE-XNP-01307] c21 N70-41856
- Sun tracker with rotatable plane-parallel plate and two photocells
[NASA-CASE-XGS-01159] c21 N71-10678
- Photomultiplier detector of Canopus for spacecraft attitude control
[NASA-CASE-XNP-03914] c21 N71-10771
- Attitude detection system using stellar references for three-axis control and spin stabilized spacecraft
[NASA-CASE-XGS-02431] c21 N71-15642
- Relay controlled voltage switching unit for scanning circuitry of star tracker
[NASA-CASE-NPO-11253] c09 N72-17157
- Method for producing reticles for use in outer space
[NASA-CASE-GSC-11188-2] c21 N73-19630
- Production method of star tracking reticles for transmitting in visible and near ultraviolet regions
[NASA-CASE-GSC-11188-1] c14 N73-32320
- Strapped down gyroscope aligned with sun and star tracker optical axis calibrating roll, yaw and pitch values
[NASA-CASE-ARC-10716-1] c31 N73-32784
- Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c14 N74-20008
- Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c14 N74-30886
- STARK EFFECT**
- Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c33 N75-26245
- STARTERS**
- Starting circuit design for initiating and maintaining arcs in vapor lamps
[NASA-CASE-XNP-01058] c09 N71-12540
- Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c33 N75-19524
- STATIC FRICTION**
- Kinetic and static friction force measurement between magnetic tape and magnetic head surfaces
[NASA-CASE-XNP-08680] c14 N71-22995
- Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c09 N75-25966
- STATIC INVERTERS**
- Describing static inverter with single or multiple phase output
[NASA-CASE-XNP-00663] c08 N71-18752
- Development and characteristics of oscillating static inverter
[NASA-CASE-XGS-05289] c09 N71-19470
- STATIC LOADS**
- Measuring shear-creep compliance of solid and liquid materials used in spacecraft components
[NASA-CASE-XLE-01481] c14 N71-10781
- Apparatus for measuring load on cable under static or dynamic conditions comprising pulleys pivoting structure against restraint of tension strap
[NASA-CASE-XMS-04545] c15 N71-22878
- STATIC PRESSURE**
- Pressure probe for sensing ambient static air pressures
[NASA-CASE-XLA-00481] c14 N70-36824
- Ambient atmospheric pressure sensing device for determining altitude of flight vehicles
[NASA-CASE-XLA-00128] c15 N70-37925
- An improved static pressure probe
[NASA-CASE-LAR-11552-1] c35 N75-10412
- STATIONKEEPING**
- Method of stationkeeping for lenticular gravity gradient satellites
[NASA-CASE-XLA-03132] c31 N71-22969
- STATISTICAL CORRELATION**
- Optical sensing of supersonic flows by correlating deflections in laser beams through flow
[NASA-CASE-MFS-20642] c14 N72-21407
- STEADY STATE**
- Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c14 N74-27861
- STEAM TURBINES**
- Vapor generating boiler system for turbine motor
[NASA-CASE-XLE-00785] c33 N71-16104
- STEELS**
- Zinc dust formulation for abrasion resistant steel coatings
[NASA-CASE-GSC-10361-1] c18 N72-23581
- STEEPERABLE ANTENNAS**
- Apparatus for generating microwave signals at progressively related phase angles for driving antenna array
[NASA-CASE-ERC-10046] c10 N71-18722
- Satellite radio communication system with remote steerable antenna
[NASA-CASE-XNP-02389] c07 N71-28900
- Amplitude steered array
[NASA-CASE-GSC-11446-1] c09 N74-20860
- STEERING**
- Steerable solid propellant rocket motor adapted to effect payload orientation as multistage rocket stage or reduce velocity as retrorocket
[NASA-CASE-XNP-00234] c28 N70-38645
- STELLAR LUMINOSITY**
- Development of star intensity measuring system which minimizes effects of outside interference
[NASA-CASE-XNP-06510] c14 N71-23797
- STELLAR SPECTRA**
- Development of star intensity measuring system which minimizes effects of outside interference
[NASA-CASE-XNP-06510] c14 N71-23797
- STEREOPHOTOGRAPHY**
- Stereo photomicrography system with stereo microscope for viewing specimen at various magnifications
[NASA-CASE-LAR-10176-1] c14 N72-20380
- Field sequential stereo television
[NASA-CASE-MSC-12616-1] c07 N74-32601
- STEREOSCOPIC VISION**
- Stereoscopic television system, including projecting pair of binocular images
[NASA-CASE-ARC-10160-1] c23 N72-27728
- STERILIZATION**
- Using ethylene oxide in preparation of sterilized solid rocket propellants and encapsulating materials
[NASA-CASE-XNP-01749] c27 N70-41897
- Ethylene oxide sterilization and encapsulating process for sterile preservation of instruments and solid propellants
[NASA-CASE-XNP-09763] c14 N71-20461

- Environmentally controlled suit for working in sterile chamber
[NASA-CASE-LAR-10076-1] c05 N73-20137
- Protein sterilization of firefly luciferase without denaturation
[NASA-CASE-GSC-10225-1] c06 N73-27086
- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c54 N75-27761
- STERILIZATION EFFECTS**
Reliability of electrical connectors after heat sterilization
[NASA-CASE-NPO-10694] c09 N72-20200
- STIMULATED EMISSION**
Repetitively pulsed wavelength selective carbon dioxide laser
[NASA-CASE-EBC-10178] c16 N71-24832
- STIRLING CYCLE**
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c37 N75-22747
- STIRRING**
Design of mechanical device for stirring several test tubes simultaneously
[NASA-CASE-XAC-06956] c15 N71-21177
- STORAGE**
Design and development of fluid sample collector
[NASA-CASE-XMS-06767-1] c14 N71-20435
- STORAGE BATTERIES**
Leak resistant bonded elastomeric seal for secondary electrochemical cells
[NASA-CASE-XGS-02631] c03 N71-23006
- Automatically charging battery of electric storage cells
[NASA-CASE-XNP-04758] c03 N71-24605
- Elimination of two step voltage discharge property of silver zinc batteries by using divalent silver oxide capacity of cell to charge anodes to monovalent silver state
[NASA-CASE-XGS-01674] c03 N71-29129
- Electric storage battery with high impact resistance
[NASA-CASE-NPO-11021] c03 N72-20032
- Electrically rechargeable redox flow cell
[NASA-CASE-LEW-12220-1] c44 N75-32586
- STORAGE STABILITY**
Storage stable, thermally activated foaming compositions for erecting and rigidizing mechanisms of thin sheet solar collectors
[NASA-CASE-LAR-10373-1] c18 N71-26155
- STORAGE TANKS**
Expulsion bladder equipped storage tank structure
[NASA-CASE-XNP-00612] c11 N70-38182
- Development of apparatus and method for testing leakage of large tanks
[NASA-CASE-XNP-02392] c32 N71-24285
- STRAIN GAGE ACCELEROMETERS**
Accelerometer with FM output signals indicative of mechanical strain on it
[NASA-CASE-XLA-00492] c14 N70-34799
- Strain gage accelerometer for angular acceleration measurement
[NASA-CASE-XMS-05936] c14 N70-41682
- STRAIN GAGE BALANCES**
Self-balancing strain gage transducer with bridge circuit
[NASA-CASE-NPS-12827] c14 N71-17656
- STRAIN GAGES**
Semiconductor p-n junction on needle apex to provide stress and strain sensor
[NASA-CASE-XLA-04980] c09 N69-27422
- Apparatus for forming wire grids for electric strain gages
[NASA-CASE-XLE-00023] c15 N70-33330
- Force measuring instrument for structural members, particularly fastening bolts or studs
[NASA-CASE-XNP-00456] c14 N70-34705
- Difference indicating circuit used in conjunction with device measuring gravitational fields
[NASA-CASE-XNP-08274] c10 N71-13537
- Water cooled gage for strain measurements in high temperature environments
[NASA-CASE-XNP-09205] c14 N71-17657
- Development of apparatus for measuring successive increments of strain on elastomers
[NASA-CASE-XNP-04680] c15 N71-19489
- Strain gage measurement of elongation due to thermally and mechanically induced stresses
[NASA-CASE-XGS-04478] c14 N71-24233
- Method for temperature compensating semiconductor gages by exposure to high energy radiation
[NASA-CASE-XLA-04555-1] c14 N71-25892
- Pulsed excitation voltage circuit for strain gage bridge transducers
[NASA-CASE-PBC-10036] c09 N72-22200
- Method for making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c14 N72-28438
- Development of strain gage mounting assembly for amplifying measurable deformation applied to strain gage
[NASA-CASE-NPO-13170-1] c14 N73-28495
- Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-NPS-21556-1] c14 N74-26945
- Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-NPS-20506-1] c35 N75-12273
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c35 N75-13227
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c33 N75-31329
- Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c35 N75-33369
- STRAIN RATE**
Process for analysis of strain field of structures subjected to large deformations involving low modulus substrate with thin coating
[NASA-CASE-LAR-10765-1] c32 N73-20740
- STRAPDOWN INERTIAL GUIDANCE**
Strapped down gyroscope aligned with sun and star tracker optical axis calibrating roll, yaw and pitch values
[NASA-CASE-ABC-10716-1] c31 N73-32784
- STRAPS**
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-NPS-22189-1] c35 N75-19615
- STRESS ANALYSIS**
Development of system for measuring damping characteristics of structure or system subjected to random forces or influences
[NASA-CASE-ABC-10154-1] c14 N72-22440
- Process for analysis of strain field of structures subjected to large deformations involving low modulus substrate with thin coating
[NASA-CASE-LAR-10765-1] c32 N73-20740
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c35 N75-13227
- STRESS CONCENTRATION**
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c35 N75-33369
- STRESS CORROSION**
Method to prevent stress corrosion cracking in titanium alloys
[NASA-CASE-NPO-10271] c17 N71-16393
- Method and apparatus for inducing compressive stresses in pressure vessel to prevent stress corrosion
[NASA-CASE-XLA-07390] c15 N71-18616
- STRESS MEASUREMENT**
Semiconductor p-n junction on needle apex to provide stress and strain sensor
[NASA-CASE-XLA-04980] c09 N69-27422
- Force measuring instrument for structural members, particularly fastening bolts or studs
[NASA-CASE-XNP-00456] c14 N70-34705
- Self-balancing strain gage transducer with bridge circuit
[NASA-CASE-NPS-12827] c14 N71-17656
- Servocontrol system for measuring local stresses at geometric discontinuity in stressed material
[NASA-CASE-XLA-08530] c32 N71-25360
- Development of strain gage mounting assembly for amplifying measurable deformation applied to strain gage
[NASA-CASE-NPO-13170-1] c14 N73-28495
- STRESS RELIEVING**
Nut and bolt fastener permitting all-directional movement of skin sections with respect to supporting structure
[NASA-CASE-XLA-01807] c15 N71-10799

STRESSES

Tape recorder designed for low power consumption and resistance to operational failure under high stress conditions
[NASA-CASE-XGS-08259] c14 N71-23698
Strain gage measurement of elongation due to thermally and mechanically induced stresses
[NASA-CASE-XGS-04478] c14 N71-24233
Strain arrestor plate --- bonding rigid thermal insulation tiles to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c18 N74-15213

STRETCHERS

Development and characteristics of rescue litter with inflatable flotation device for water rescue application
[NASA-CASE-XMS-04170] c05 N71-22748
Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-XMP-06589] c05 N71-23159

STRETCHING

Device for securing together structural members with axially stretched bolt and nut
[NASA-CASE-GSC-11149-1] c15 N73-30457

STRINGS

Cord restraint system for pressure suit joints
[NASA-CASE-XMS-09635] c05 N71-24623

STRUCTURAL DESIGN

Design of inflatable life raft for aircrafts and boats
[NASA-CASE-XMS-00863] c05 N70-34857
Structural design of high pressure regulator valve
[NASA-CASE-XNP-00710] c15 N71-10778
Graphic illustration of lifting body design
[NASA-CASE-PHC-10063] c01 N71-12217
Design of ring wing vehicle of high drag-to-weight ratio to withstand reentry stress into low density atmosphere
[NASA-CASE-XLA-04901] c31 N71-24315
Airfoil with cambered trailing edge section for supersonic flight
[NASA-CASE-LAR-10585-1] c01 N73-14981

STRUCTURAL MEMBERS

Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures
[NASA-CASE-XMS-05303] c07 N69-27462
Electro-optical/computer system for aligning large structural members and maintaining correct position
[NASA-CASE-XNP-02029] c14 N70-41955
Nut and bolt fastener permitting all-directional movement of skin sections with respect to supporting structure
[NASA-CASE-XLA-01807] c15 N71-10799
Universal joints for connecting two displaced shafts or members
[NASA-CASE-NPO-10646] c15 N71-28467
Fabrication of light weight panel structure using pairs of elongate hollow ribs of semicircular configuration
[NASA-CASE-LAR-11052-1] c32 N73-13929
Device for securing together structural members with axially stretched bolt and nut
[NASA-CASE-GSC-11149-1] c15 N73-30457
Strain arrestor plate --- bonding rigid thermal insulation tiles to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c18 N74-15213
Method of laminating structural members
[NASA-CASE-XLA-11028-1] c18 N74-27035
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c18 N75-27040

STRUCTURAL STABILITY

Latching device
[NASA-CASE-MFS-21606-1] c37 N75-19685

STRUCTURAL VIBRATION

Rectangular electric conductors for conductor cables to withstand spacecraft vibration and controlled atmosphere
[NASA-CASE-MFS-14741] c09 N70-20737
Determining sway of buildings by low frequency device using pendulum
[NASA-CASE-XNP-00479] c14 N70-34794
Transducer for measuring deflections from vibrating structures

[NASA-CASE-XLA-03135] c32 N71-16428

STRUCTURES

Deformation measuring apparatus with feedback control for arbitrarily shaped structures
[NASA-CASE-LAR-10098] c32 N71-26681

STRUTS

Low onset rate energy absorber in form of strut assembly for crew couch of Apollo command module
[NASA-CASE-MSC-12279-1] c15 N70-35679
Collapsible support for antenna reflector applied to installation of spacecraft antennas
[NASA-CASE-NPO-11751] c07 N73-24176

STUDS (STRUCTURAL MEMBERS)

Design of quick release locking pin for joining two or more load-carrying structural members
[NASA-CASE-MFS-18495] c15 N72-11385
Tool for mounting and removing studs with adhesive coated head portion
[NASA-CASE-MFS-20299] c15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c15 N74-25968

SUBMINIATURIZATION

Microamperage current measuring circuit, with two subminiature thermionic diodes with filament cathodes
[NASA-CASE-XNP-00384] c09 N71-13530

SUBREFLECTORS

Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c33 N75-19516

SUBSONIC SPEED

Aerospace vehicle with variable planform for hypersonic and subsonic flight
[NASA-CASE-XLA-00805] c31 N70-38010
Construction of leading edges of surfaces for aerial vehicles performing from subsonic to above transonic speeds
[NASA-CASE-XLA-01486] c01 N71-23497
Variable dihedral shuttle orbiter --- for flight at hypersonic and subsonic speeds
[NASA-CASE-LAR-10706-1] c18 N75-16613

SUBSONIC WIND TUNNELS

Variable geometry wind tunnel for testing aircraft models at subsonic speeds
[NASA-CASE-XLA-07430] c11 N72-22246

SUBSTRATES

Means and methods of depositing thin films on substrates
[NASA-CASE-XNP-00595] c15 N70-34967
Fabrication of solar cell banks for attaching solar cells to base members or substrates
[NASA-CASE-XNP-00826] c03 N71-20895
Method and apparatus for fabricating solar cell panels
[NASA-CASE-XNP-03413] c03 N71-26726
Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-1] c27 N75-26136

SUBSTRUCTURES

Supporting structure for simultaneous exposure of pellets to X rays
[NASA-CASE-XNP-06031] c15 N71-15606

SULFATES

Nitroaniline sulfate, intumescent paints
[NASA-CASE-ARC-10099-1] c18 N71-15469

SULFONES

Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c33 N75-27252

SULFUR COMPOUNDS

Mercaptan terminated polymer containing sulfonic acid salts of nitrosubstituted aromatic amines for heat and moisture resistant coatings
[NASA-CASE-ARC-10325] c06 N72-25147

SULFUR OXIDES

Stack plume visualization system
[NASA-CASE-LAR-11675-1] c74 N75-20091

SUM RULES

Describing circuit for obtaining sum of squares of numbers
[NASA-CASE-XGS-04765] c08 N71-18693

SUNGLASSES

Pliable frame for sunglasses in emergency survival kits
[NASA-CASE-XMS-06064] c05 N71-23096

SUNLIGHT

Illumination system design for use as sunlight simulator in space environment simulators with multiple light sources reflected to single

- virtual source
[NASA-CASE-HQN-10781] c23 N71-30292
- SUPERCONDUCTING MAGNETS**
Cryogenic flux-gated magnetometer using superconductors
[NASA-CASE-XAC-02407] c14 N69-27423
Improved alternator with windings of superconducting materials acting as permanent magnet
[NASA-CASE-XLE-02824] c03 N69-39890
Segmented superconducting magnet producing staggered magnetic field and suitable for broadband traveling wave masers
[NASA-CASE-XGS-10518] c16 N71-28554
Operating properties of superconducting magnet in vacuum environment
[NASA-CASE-XMP-06503] c23 N71-29049
Magnetometer using a superconducting rotating body
[NASA-CASE-NPO-13388-1] c35 N75-11309
- SUPERCONDUCTIVITY**
Superconducting alternator design with cryogenic fluid for cooling windings below critical temperature
[NASA-CASE-XLE-02823] c09 N71-23443
Superconductive resonant cavity for improved signal to noise ratio in communication signal
[NASA-CASE-MSC-12259-2] c07 N72-33146
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[NASA-CASE-NPO-13348-1] c33 N75-31332
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[NASA-CASE-XMP-01099] c14 N71-15969
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[NASA-CASE-LEW-11726-1] c26 N73-26752
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[NASA-CASE-LEW-11015] c26 N73-32571
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[NASA-CASE-LEW-11582-1] c09 N74-33739
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[NASA-CASE-XLA-00230] c02 N70-33255
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[NASA-CASE-XLA-00350] c02 N70-38011
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[NASA-CASE-XLA-03659] c02 N71-11041
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[NASA-CASE-XLA-04451] c02 N71-12243
Absorptive, nonreflecting barrier mounted between closely spaced jet engines on supersonic aircraft, for preventing shock wave interference
[NASA-CASE-XLA-02865] c28 N71-15563
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- SUPERSONIC DRAG**
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[NASA-CASE-GSC-10087-3] c07 N72-12080
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[NASA-CASE-XGS-02401] c14 N69-27485
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[NASA-CASE-XMS-00864] c05 N70-36493
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[NASA-CASE-XMS-06064] c05 N71-23096
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- Parallel motion suspension device for measuring instruments
[NASA-CASE-XNP-01567] c15 N70-41310
- Cable suspension and inclined walkway system for simulating reduced or zero gravity environments
[NASA-CASE-XLA-01787] c11 N71-16028
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- and umbilical towers
[NASA-CASE-LAR-1C193-1] c15 N71-27146
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Transpiration cooled turbine blade made from metallic or ceramic wires
[NASA-CASE-XLE-00020] c15 N70-33226
Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding
[NASA-CASE-XMS-02677] c31 N70-42075
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[NASA-CASE-LEW-11118-1] c15 N74-32919
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Transistorized circuit for producing multiple slope voltage sweep
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Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
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[NASA-CASE-ABC-1C304-1] c18 N73-26572
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[NASA-CASE-XLA-05749] c15 N71-19569
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Switching mechanism with energy stored in coil spring
[NASA-CASE-XGS-0C473] c03 N70-38713
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[NASA-CASE-XNP-01466] c10 N71-26434
Radio frequency controlled solid state switch
[NASA-CASE-ABC-1C136-1] c09 N72-22202
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Solid state switching circuit design to increase current capacity of low rated relay contacts
[NASA-CASE-XNP-05228] c09 N69-27500
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[NASA-CASE-XNP-02713] c10 N69-39888
Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
[NASA-CASE-ERC-1C072] c09 N70-11148
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[NASA-CASE-XNP-00517] c03 N70-34157
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[NASA-CASE-XAC-0C060] c09 N70-39915
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[NASA-CASE-XNP-02654] c10 N70-42032
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[NASA-CASE-XGS-01451] c09 N71-10677
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[NASA-CASE-XMS-0C945] c09 N71-10798
Silicon controlled rectifier pulse gate amplifier for blocking false gating caused by negative transient voltages
[NASA-CASE-XLA-07497] c09 N71-12514
Describing magnetic core current switching device for steering bipolar current pulses to memory units
[NASA-CASE-NPO-1C201] c08 N71-18694
Transistorized dc-coupled multivibrator with noninverted output signal
[NASA-CASE-XNP-09450] c10 N71-18723
Reversible current directing circuitry for reversible motor control
[NASA-CASE-XLA-09371] c10 N71-18724
Constructing Exclusive-Or digital logic circuit in single module
[NASA-CASE-XLA-07732] c08 N71-18751
Polarization diversity monopulse tracking receiver design without radio frequency switches
[NASA-CASE-XGS-03501] c09 N71-20864
Sight switch using infrared source and sensor mounted beside eye
[NASA-CASE-XNP-03934] c09 N71-22985
Complementary regenerative transistorized switch circuit employing positive and negative feedback
[NASA-CASE-XGS-02751] c09 N71-23015
Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
[NASA-CASE-XNP-01318] c10 N71-23033
Electric circuit for producing high current pulse having fast rise and fall time
[NASA-CASE-XMS-04919] c09 N71-23270
Electric circuit for reversing direction of current flow
[NASA-CASE-XNP-00952] c10 N71-23271
Switching series regulator with gating control network
[NASA-CASE-XMS-09352] c09 N71-23316
Microwave waveguide switch with rotor position control
[NASA-CASE-XNP-06507] c09 N71-23548
Signaling summary alarm circuit with semiconductor switch for faulty contact indications
[NASA-CASE-XLE-03061-1] c10 N71-24798
Solid state circuit for switching alternating current input signal as function of direct current gating transistor
[NASA-CASE-XNP-06505] c10 N71-24799
Inverters for changing direct current to alternating current
[NASA-CASE-XGS-06226] c10 N71-25950
Design and development of multistage current steering switch with inductively coupled magnetic cores
[NASA-CASE-XNP-08567] c09 N71-26000
Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and magnetic storage
[NASA-CASE-XGS-04224] c10 N71-26418
Turn on current transient limiter for controlling peak current flow in high capacity load
[NASA-CASE-GSC-10413] c10 N71-26531
Input radio frequency circuit for switching type absolute temperature measuring radiometer for noise sources
[NASA-CASE-ERC-11020] c14 N71-26774
Inverter drive circuit for semiconductor switch
[NASA-CASE-LEW-10233] c10 N71-27126
Phase locked demodulator with bandwidth switching amplifier circuit
[NASA-CASE-XNP-01107] c10 N71-28859
Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
[NASA-CASE-MSC-13492-1] c10 N71-28860
Digital magnetic core memory with sensing amplifier circuits
[NASA-CASE-XNP-01012] c08 N71-28925
Current regulating voltage divider design with load current shunting
[NASA-CASE-MPS-20935] c09 N71-34212
Relay controlled voltage switching unit for scanning circuitry of star tracker
[NASA-CASE-NPO-11253] c09 N72-17157
Spacecraft solar cell system with switching circuit to provide compensation for environmental changes
[NASA-CASE-GSC-10669-1] c03 N72-20031
Flow rate switch for detecting variations in fluid flow velocity through conduits of pressurized systems
[NASA-CASE-NPO-10722] c09 N72-20199
Switching type voltage regulator with relatively simple circuit arrangement
[NASA-CASE-LEW-11005-1] c09 N72-21243
Development and characteristics of data multiplexer circuit using field effect transistors arranged in tree switching configuration
[NASA-CASE-NPO-11333] c08 N72-22162
Pulse coupling circuit with switch between generator and winding

- [NASA-CASE-LEW-10433-1] c09 N72-22197
Solid state remote circuit selector switching circuit
- [NASA-CASE-LEW-10387] c09 N72-22201
Pressure operated electrical switch responsive to pressure decrease after pressure increase
- [NASA-CASE-LAR-10137-1] c09 N72-22204
Transistorized switching logic circuits with tunnel diodes
- [NASA-CASE-GSC-10878-1] c10 N72-22236
Switching circuit for control of cathode ray tube beam with fast rise time for output signal
- [NASA-CASE-KSC-10647-1] c10 N72-31273
Electronic video editor for switching video input signals to common output channel
- [NASA-CASE-KSC-10003] c10 N73-13235
Solid state switch for variable circuit switching
- [NASA-CASE-NPO-10817-1] c08 N73-30135
Transparent switchboard which permits optical display devices to be adapted for use in man machine communications
- [NASA-CASE-MSC-13746-1] c10 N73-32143
High isolation RF signal selection switches
- [NASA-CASE-NPO-13081-1] c07 N74-22814
Multi-computer multiple data path hardware exchange system
- [NASA-CASE-NPO-13422-1] c62 N75-12652
The dc-to-dc converters employing staggered phase power switches with two loop control
- [NASA-CASE-NPO-13512-1] c33 N75-15876
Isolated output system for a class D switching-mode amplifier
- [NASA-CASE-MPS-21616-1] c33 N75-30429
Dual digital video switcher
- [NASA-CASE-KSC-10782-1] c33 N75-30431
- SWITCHING THEORY**
- Multiple circuit switch apparatus requiring minimum hand and eye movement by operator
- [NASA-CASE-IAC-03777] c10 N71-15909
Magnetic tape head function switching system
- [NASA-CASE-GSC-11956-1] c35 N75-25134
- SWIVELS**
- Swivel support for gas bearing for position adjustment between ball and supporting cup
- [NASA-CASE-IMP-07808] c15 N71-23812
- SYNCHRONISM**
- Synchronizing apparatus for multi-access satellite time division multiplex system
- [NASA-CASE-XGS-05918] c07 N69-39974
Circuitry for generating sync signals in FM communication systems including video information
- [NASA-CASE-INP-10830] c07 N71-11281
Development of method for synchronizing clocks at several ground stations based on signals received from spacecraft or satellites
- [NASA-CASE-INP-08875] c10 N71-23099
Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
- [NASA-CASE-XGS-03632] c09 N71-23311
Time synchronization system for synchronizing clocks at remote locations with master clock using moon reflected coded signals
- [NASA-CASE-NPO-10143] c10 N71-26326
System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
- [NASA-CASE-NPO-10214] c10 N71-26577
- SYNCHRONIZED OSCILLATORS**
- Development of phase demodulation system with two phase locked loops
- [NASA-CASE-INP-00777] c10 N71-19469
Phase locked phase modulation system with voltage controlled oscillator for final phase linearity
- [NASA-CASE-INP-05382] c10 N71-23544
Automatic frequency control device for providing frequency reference for voltage controlled oscillator
- [NASA-CASE-KSC-10393] c09 N72-21247
- SYNCHRONIZERS**
- Development and characteristics of burst synchronization detection system
- [NASA-CASE-XMS-05605-1] c10 N71-19468
Time division relay synchronizer with master sync pulse for activating binary counter to produce signal identifying time slot for station
- [NASA-CASE-GSC-10373-1] c07 N71-19773
Design and development of synchronous servo loop control system
- [NASA-CASE-INP-03744] c10 N71-20448
Digital synchronizer for extracting binary data in receiver of PSK/PCM communication system
- [NASA-CASE-NPO-10851] c07 N71-24613
Video sync processor with phase locked system
- [NASA-CASE-KSC-10002] c10 N71-25865
Pulse code modulated signal synchronizer
- [NASA-CASE-MSC-12462-1] c07 N74-20809
Pulse code modulated signal synchronizer
- [NASA-CASE-MSC-12494-1] c07 N74-20810
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- [NASA-CASE-NPO-13125-1] c33 N75-19519
Telemetry synchronizer
- [NASA-CASE-GSC-11868-1] c17 N75-22365
- SYNCHRONOUS MOTORS**
- Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
- [NASA-CASE-GSC-10065-1] c10 N71-27136
Motor run-up system --- power lines
- [NASA-CASE-NPO-13374-1] c33 N75-19524
- SYNCHRONOUS SATELLITES**
- Position locating system for remote aircraft using voice communication and digital signals
- [NASA-CASE-GSC-10087-2] c21 N71-13958
Serrordyne traveling wave tube reentrant amplifier for synchronous communication satellites operating at microwave frequencies
- [NASA-CASE-XGS-01022] c07 N71-16088
Traffic control system for supersonic transports using synchronous satellite for data relay between vehicles and ground station
- [NASA-CASE-GSC-10087-1] c02 N71-19287
Tracking antenna system with array for synchronous satellite or ground based radar
- [NASA-CASE-GSC-10553-1] c07 N71-19854
Satellite network synchronization system with multiple access to multiplex repeater
- [NASA-CASE-GSC-10390-1] c07 N72-11149
Development of device for simulating charge and discharge cycle of battery in synchronous orbit
- [NASA-CASE-GSC-11211-1] c03 N72-25020
- SYNTHESIS**
- Synthesis of polymeric schiff bases by schiff-base exchange reactions
- [NASA-CASE-INP-08651] c06 N71-11236
Preparation of ordered poly(arylenesiloxane)/polymers
- [NASA-CASE-INP-10753] c06 N71-11237
Synthesis and chemical properties of imidazopyrrolone/imide copolymers
- [NASA-CASE-XLA-08802] c06 N71-11238
Stable polyimide synthesis from mixtures of monomeric diamines and polycarboxylic acid esters
- [NASA-CASE-LEW-11325-1] c06 N73-27980
- SYNTHESIZERS**
- Digitally controlled frequency synthesizer for pulse frequency modulation telemetry systems
- [NASA-CASE-XGS-02317] c09 N71-23525
- SYNTHETIC FIBERS**
- Manufacture of fluid containers from fused coated polyester sheets having resealable septum
- [NASA-CASE-NPO-10123] c15 N71-24835
Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits
- [NASA-CASE-MSC-12109] c18 N71-26285
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
- [NASA-CASE-INP-08881] c17 N71-28747
- SYNTHETIC RESINS**
- Process permitting application of synthetic resin coating to irregular-shaped objects at ambient temperature
- [NASA-CASE-INP-06508] c18 N65-39895
- SYSTEM FAILURES**
- Tape recorder designed for low power consumption and resistance to operational failure under high stress conditions
- [NASA-CASE-XGS-08259] c14 N71-23698
Fault tolerant clock apparatus utilizing a controlled minority of clock elements

- [NASA-CASE-MSC-12531-1] c35 N75-30504
SYSTEMS ANALYSIS
 Analog to digital converter analyzing system
 [NASA-CASE-NPO-10560] c08 N72-22166
SYSTEMS ENGINEERING
 Design of magnetohydrodynamic induction machine
 with end poles which produce compensating
 magnetic fields
 [NASA-CASE-XNP-07481] c25 N69-21929
 Hovering type flying vehicle design and
 principle mechanisms for manned or unmanned use
 [NASA-CASE-MSC-12111-1] c02 N71-11039
 Solar battery with interconnecting means for
 plural cells
 [NASA-CASE-XNP-06506] c03 N71-11050
 Transparent polycarbonate resin, shell helmet
 and latch design for high altitude and space
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 [NASA-CASE-XMS-04935] c05 N71-11190
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[NASA-CASE-LAR-10531-1] c02 N73-13023
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T

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[NASA-CASE-MFS-20385] c09 N71-24904

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[NASA-CASE-MFS-20418] c14 N73-24473

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Aircraft instrument for indicating malfunctions during takeoff

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Arc electrode of graphite with tantalum ball tip

[NASA-CASE-XLE-04788] c09 N71-22987

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[NASA-CASE-XLA-03105] c15 N69-27483

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Plural recorder system which limits signal recording to signals of sufficient interest

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Endless loop tape transport mechanism for driving and tensioning recording medium in magnetic tape recorder

[NASA-CASE-XGS-01223] c07 N71-10609

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[NASA-CASE-XGS-00373] c23 N71-15978

Tape guidance system for multichannel digital recording system

[NASA-CASE-XNP-09453] c08 N71-19420

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[NASA-CASE-XNP-03744] c10 N71-20448

Development of data storage system for storing digital data in high density format on magnetic tape

[NASA-CASE-XNP-02778] c08 N71-22710

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[NASA-CASE-XGS-08259] c14 N71-23698

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- Circuitry for generating sync signals in FM communication systems including video information [NASA-CASE-INP-10830] c07 N71-11281
- Automatic estimation of signal to noise ratio and other parameters in signal communication systems [NASA-CASE-INP-05254] c07 N71-20791
- Digital synchronizer for extracting binary data in receiver of PCM/PCN communication system [NASA-CASE-NPO-10851] c07 N71-24613
- Encoders designed to generate comma free biorthogonal Reed-Muller type code comprising conversion of 64 6-bit words into 64 32-bit data for communication purposes [NASA-CASE-NPO-10595] c10 N71-25917
- Multicarrier communications system for transmitting modulated signals from single transmitter [NASA-CASE-NPO-11548] c07 N73-26118
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- Coherent receiver employing nonlinear coherence detection for carrier tracking [NASA-CASE-NPO-11921-1] c07 N74-30523
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- Development of telemetry system for position location and data acquisition [NASA-CASE-GSC-10083-1] c30 N71-16090
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[NASA-CASE-XLE-05230-2] c14 N73-13417

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[NASA-CASE-XLA-03273] c14 N71-18699
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[NASA-CASE-XNP-00425] c11 N70-38202
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[NASA-CASE-XLA-00711] c03 N71-12258
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[NASA-CASE-XLA-01396] c03 N71-12259
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[NASA-CASE-XNP-05344] c31 N71-16345
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[NASA-CASE-NPO-11140] c15 N72-17455
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[NASA-CASE-NPO-11202] c15 N72-25450
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[NASA-CASE-XKS-02342] c05 N71-11199
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[NASA-CASE-LAR-10595-1] c15 N74-16135
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[NASA-CASE-MFS-20332] c05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c05 N73-25125
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[NASA-CASE-ARC-10710-1] c09 N75-12969
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[NASA-CASE-XNP-09768] c09 N71-12516
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Device which separates and screens particles of soil samples for vidicon viewing in vacuum and reduced gravity environments
[NASA-CASE-XNP-09770-3] c11 N71-27036
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[NASA-CASE-GSC-11092-2] c04 N73-27052
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[NASA-CASE-GSC-11169-2] c05 N73-32011
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[NASA-CASE-MSC-12324-1] c05 N72-22093

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[NASA-CASE-MFS-20730-1] c14 N74-13131
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[NASA-CASE-XKS-04614] c15 N69-21460
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[NASA-CASE-XNP-06503] c23 N71-29049
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[NASA-CASE-XAC-00472] c15 N70-40180
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[NASA-CASE-XNP-03290] c15 N71-23256
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[NASA-CASE-XNP-09699] c06 N71-24607
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[NASA-CASE-GSC-10518-1] c15 N72-22489
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[NASA-CASE-LAR-11224-1] c15 N74-20072
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[NASA-CASE-MFS-22952-1] c37 N75-15055
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 separately located ion gage pressures on
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 [NASA-CASE-XLE-00787] c14 N71-21090
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 measuring gas density in vacuum chambers
 [NASA-CASE-XER-11203] c14 N71-28994
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 [NASA-CASE-LAR-10031] c15 N72-22484
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 [NASA-CASE-INP-01667] c15 N71-17647
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 [NASA-CASE-XGS-07752] c14 N73-30390
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 [NASA-CASE-XLA-05087] c14 N73-30391
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 [NASA-CASE-XGS-02441] c15 N70-41629
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 [NASA-CASE-XLA-07424] c14 N71-18482
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 [NASA-CASE-XER-09519] c14 N71-18483
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 number of lightweight movable elements
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 to control valve handling large liquid flows
 [NASA-CASE-INQ-01208] c15 N70-35409
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 [NASA-CASE-INP-00214] c15 N70-36908
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 [NASA-CASE-INP-01962] c32 N70-41370
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 [NASA-CASE-XMS-05890] c09 N71-23191
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 [NASA-CASE-MFS-20922-1] c15 N74-22136

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 [NASA-CASE-INP-01961] c26 N71-29156
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 [NASA-CASE-GSC-10695-1] c09 N72-25259
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 [NASA-CASE-LAR-10541-1] c15 N72-32487
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 [NASA-CASE-LEW-11262-1] c18 N74-13270
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 [NASA-CASE-MFS-20775-1] c31 N75-12161
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- [NASA-CASE-XLE-01182] c27 N71-15635
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- [NASA-CASE-XNP-01960] c09 N71-23027
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- [NASA-CASE-NPO-10691] c14 N71-26199
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- [NASA-CASE-NPO-10185] c10 N71-26339
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- [NASA-CASE-HSC-14773-1] c31 N75-32262
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- [NASA-CASE-XLE-00288] c15 N70-34247
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- [NASA-CASE-XNP-04042] c15 N71-23023
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- [NASA-CASE-XER-09519] c14 N71-18483
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- [NASA-CASE-XLE-00785] c33 N71-16104
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- [NASA-CASE-NPO-10070] c15 N71-27372
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- [NASA-CASE-NPO-10633] c03 N72-28025
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- [NASA-CASE-HSC-13201-1] c07 N71-28429
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- [NASA-CASE-GSC-11617-1] c09 N74-32660
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- [NASA-CASE-XLA-00350] c02 N70-38011
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- [NASA-CASE-XLA-03659] c02 N71-11041
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- [NASA-CASE-ARC-10470-1] c02 N73-26005
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- [NASA-CASE-XNP-00923] c28 N70-36802
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- [NASA-CASE-XLE-00177] c28 N70-40367
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- [NASA-CASE-XAC-04886-1] c14 N71-20439
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- [NASA-CASE-ABC-10722-1] c51 N75-25503
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- [NASA-CASE-NFS-20400] c31 N71-18611
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- [NASA-CASE-NFS-21309-1] c15 N74-18125
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- [NASA-CASE-NFS-20645-1] c15 N74-23070
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- [NASA-CASE-XLA-07473] c15 N71-24895
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- [NASA-CASE-XLA-00495] c14 N70-41332
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- [NASA-CASE-XNP-01099] c14 N71-15969
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- [NASA-CASE-NFS-20386] c21 N71-19212
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- [NASA-CASE-XMS-04201] c14 N71-22990
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- [NASA-CASE-ERC-10292] c14 N72-25410
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- [NASA-CASE-LAR-10855-1] c14 N73-13415
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- [NASA-CASE-HQN-10740-1] c24 N74-19310
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- [NASA-CASE-XLE-01533] c11 N71-10777
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[NASA-CASE-XLE-01449] c15 N70-41646
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[NASA-CASE-XKS-02582] c15 N71-21234
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[NASA-CASE-XMS-05652-1] c05 N71-26333
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[NASA-CASE-XNP-03282] c28 N72-20758
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[NASA-CASE-XNP-00459] c11 N70-38675
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[NASA-CASE-XLA-00487] c14 N70-40157
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[NASA-CASE-XNP-01174] c02 N70-41589
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[NASA-CASE-XLA-06339] c02 N71-13422
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[NASA-CASE-XAC-08972] c02 N71-20570
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[NASA-CASE-XKS-09340] c07 N71-24614
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[NASA-CASE-XMS-00864] c05 N70-36493
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[NASA-CASE-GSC-10306-1] c15 N71-24694
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[NASA-CASE-LAR-10106-1] c15 N71-27169
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[NASA-CASE-XLE-00155] c28 N71-29154
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[NASA-CASE-XAC-10768] c09 N71-18830
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[NASA-CASE-NPO-11213] c15 N73-20514
- Development of optical system for detecting defective components in rotating machinery with emphasis on bearing assemblies
[NASA-CASE-KSC-10752-1] c15 N73-27407
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[NASA-CASE-XAC-11225] c14 N69-27486
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[NASA-CASE-XLA-01019] c15 N70-40156
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[NASA-CASE-XMS-01620] c23 N71-15673
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[NASA-CASE-MSC-10959] c15 N71-26243
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[NASA-CASE-LAR-10083-1] c15 N71-27006
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[NASA-CASE-NPO-11012] c15 N72-11391
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[NASA-CASE-ABC-10154-1] c14 N72-22440
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[NASA-CASE-LAR-11353-1] c14 N74-20020
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[NASA-CASE-GSC-11302-1] c14 N73-13416
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[NASA-CASE-XNP-10830] c07 N71-11281
- Monitoring circuit design for sampling circuit control and reduction of time-bandwidth in video communication systems
[NASA-CASE-NBP-02791] c07 N71-23026
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[NASA-CASE-XNP-01472] c14 N70-41807
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[NASA-CASE-ABC-10003-1] c09 N71-25866
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[NASA-CASE-GSC-10185-1] c07 N72-12081
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[NASA-CASE-KSC-10782-1] c33 N75-30431
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[NASA-CASE-NPO-10199] c09 N72-17156
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[NASA-CASE-KSC-10003] c10 N73-13235
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[NASA-CASE-NPO-10166-1] c07 N73-22076
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c74 N75-20091

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[NASA-CASE-XNP-06028] c09 N71-23189
Device which separates and screens particles of soil samples for vidicon viewing in vacuum and reduced gravity environments
[NASA-CASE-XNP-09770-3] c11 N71-27036

VINYL POLYMERS
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[NASA-CASE-XNP-03250] c06 N71-23500

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[NASA-CASE-XLA-08254] c14 N71-26161
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[NASA-CASE-NPO-11387] c14 N73-14429
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[NASA-CASE-NPO-13253-1] c37 N75-18573

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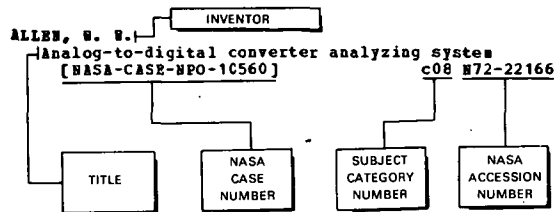
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[NASA-CASE-ARC-10263-1] c14 N72-22438
Nondispersive gas analyzing method and apparatus
wherein radiation is serially passed through a
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[NASA-CASE-ARC-10308-1] c06 N72-31141
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2(B)] c09 N74-14941
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Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c14 N74-27875
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A method and apparatus for compensating
reflection losses in a path length modulated
absorption-absorption trace gas detector
[NASA-CASE-ARC-10631-1] c14 N74-34864
Nulling device for detection of trace gases by
NDIR absorption
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JEWELL, R. A.	Production of high purity silicon carbide Patent		[NASA-CASE-XMS-02977]	c11 N71-10746
	[NASA-CASE-XLA-00158]	c26 N70-36805	Gravity stabilized flying vehicle Patent	
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	[NASA-CASE-XLA-02057]	c26 N70-40015	Hand-held self-maneuvering unit Patent	
	Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent		[NASA-CASE-XMS-05304]	c05 N71-12336
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	Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent		[NASA-CASE-XMS-01445]	c12 N71-16031
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JEX, D. W.	Liquid aerosol dispenser		[NASA-CASE-XMS-04798]	c11 N71-21474
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	[NASA-CASE-RSC-11253]	c05 N71-12343	Quiet jet transport aircraft	
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JOHNS, C. E.	Continuously variable voltage controlled phase shifter		[NASA-CASE-LAR-11252-1]	c05 N75-25914
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OROURKE, T. E., JR.
Sealing member and combination thereof and
method of producing said sealing member Patent
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ORTH, N. W.
Process for producing dispersion strengthened
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OSHER, J. V.
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[NASA-CASE-NPO-13519-1] c54 N75-17102

OSHUNDSON, J.
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OSTROFF, A. J.
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[NASA-CASE-LAR-10523-1] c14 N72-22444

OSTROFF, J.
Rotary actuator
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OSULLIVAN, W. J., JR.
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c15 N70-36409
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c31 N71-17680
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[NASA-CASE-XLA-01243] c33 N71-22792
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OTHMAN, T. E.
Safety-type locking pin
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OTOSHI, T. Y.
Rotary vane attenuator wherein rotor has
orthogonally disposed resistive and dielectric
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OTTO, G. H.
Synthesis of superconducting compounds by
explosive compaction of powders
[NASA-CASE-MFS-20861-1] c18 N73-32437

OUTLAW, E. A.
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PAGE, G. D., JR.
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[NASA-CASE-NPO-13722-1] c19 N75-33169

PACKARD, R. D.
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c18 N73-30532

PADILLA, D.
Fiber separating and cleaning method and apparatus
[NASA-CASE-LAR-11224-1] c15 N74-20072

PAIK, S. P.
Parametric microwave noise generator Patent
[NASA-CASE-YER-11019] c09 N71-23598

PAIK, W. W.
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c15 N73-20514

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Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c03 N70-41864

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[NASA-CASE-MFS-22758-1] c70 N75-26789

PAN, F. H.
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[NASA-CASE-XNP-05450] c10 N71-18723

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[NASA-CASE-ERC-10208] c15 N70-10867

PAPELL, S. S.
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[NASA-CASE-XLE-01512] c12 N70-40124

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[NASA-CASE-XLE-01449] c15 N70-41646

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[NASA-CASE-LEW-10364-1] c09 N71-13522

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[NASA-CASE-XLE-01182] c27 N71-15635

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Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c17 N75-22365

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Resistive anode image converter
[NASA-CASE-HQB-10876-1] c35 N75-19621

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[NASA-CASE-XGS-04175] c15 N71-18579

PARKER, G. L.
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[NASA-CASE-XNP-01306] c07 N71-20814

High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c09 N71-24596

Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c14 N72-22441

PARKER, J. A.
Modified polyisocyanurate polymer foam Patent Application
[NASA-CASE-ARC-10280-1] c18 N70-34695

Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c18 N71-15469

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c06 N71-24739

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c18 N73-26572

Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c18 N74-11366

Flexible fire retardant polyisocyanate modified neoprene foam
[NASA-CASE-ARC-10180-1] c06 N74-12814

Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c18 N74-16249

Chromato-fluorographic drug detector
[NASA-CASE-ARC-10633-1] c14 N74-26947

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[NASA-CASE-ARC-10304-2] c18 N74-27037

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[NASA-CASE-ARC-10823-1] c27 N75-24938

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[NASA-CASE-LAR-10372] c09 N71-18599

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[NASA-CASE-XLA-00679] c15 N70-38601

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[NASA-CASE-XLA-02132] c31 N71-10582

Flared tube strainer
[NASA-CASE-XLA-05056] c15 N72-11389

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[NASA-CASE-XLE-02999] c15 N71-16052

Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c15 N73-30458

Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c15 N74-15128

Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c15 N74-21064

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[NASA-CASE-XNP-02507] c31 N71-17679

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[NASA-CASE-XMS-04826] c28 N71-28849

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[NASA-CASE-XGS-04808] c03 N69-25146

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[NASA-CASE-XGS-06226] c10 N71-25950

A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c09 N72-25253

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[NASA-CASE-XNP-01328] c26 N71-18064

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[NASA-CASE-KSC-10126] c11 N71-24985

PATTEN, C. W.
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PATTERSON, J. C., JR.
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c02 N74-26456

PATTERSON, W. J.
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[NASA-CASE-MFS-13994-1] c06 N71-11240

Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c06 N72-25148

Silphenylenesiloxane polymers having in-chain perfluorocalkyl groups
[NASA-CASE-MFS-20979] c06 N72-25151

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[NASA-CASE-XAC-08972] c02 N71-20570

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Plasma device feed system Patent
[NASA-CASE-XLE-02902] c25 N71-21694
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and electron baffle
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[NASA-CASE-MFS-21671-1] c10 N74-22885

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[NASA-CASE-XGS-01395] c03 N69-21539

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space stations
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linear feedback shift registers
[NASA-CASE-NPO-11406] c08 N73-12175
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binary logic
[NASA-CASE-NPO-11868] c10 N73-20254
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[NASA-CASE-MFS-21919-1] c10 N73-25243

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[NASA-CASE-XMS-01240] c05 N70-35152

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[NASA-CASE-ARC-10807-1] c02 N74-34475

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[NASA-CASE-GSC-11895-1] c15 N74-33997

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[NASA-CASE-MSC-14180-1] c05 N73-22045
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[NASA-CASE-HQN-10756-1] c14 N72-25428

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[NASA-CASE-XLE-04503] c14 N71-24864
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[NASA-CASE-LEW-10387] c09 N72-22201
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[NASA-CASE-LEW-11583-1] c15 N74-13199
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[NASA-CASE-XLE-04791] c14 N74-22096

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[NASA-CASE-XNP-05219] c16 N71-15550
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for a phase-lock loop providing frequency
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[NASA-CASE-XMF-08665] c10 N71-19467

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[NASA-CASE-XLE-02428] c17 N70-33288
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[NASA-CASE-XGS-00260] c31 N70-37924

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[NASA-CASE-LEW-10906-1] c06 N74-30502
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[NASA-CASE-LEW-11860-1] c25 N75-13053

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[NASA-CASE-NPO-13391-1] c33 N74-19584

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[NASA-CASE-XLA-00241] c31 N70-37986
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[NASA-CASE-XLA-03132] c31 N71-22969

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[NASA-CASE-XKS-04631] c10 N71-23663
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[NASA-CASE-KSC-10031] c15 N72-22486
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fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c28 N70-38181

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[NASA-CASE-GSC-10565-1] c06 N72-25149
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body fluids
[NASA-CASE-GSC-11092-2] c04 N73-27052
Automatic instrument for chemical processing to
detect microorganism in biological samples by
measuring light reactions
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disc and a computer
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SMITH, W. W.
Trajectory-correction propulsion system Patent
[NASA-CASE-INP-01104] c28 N70-39931

SHOOT, G. F.
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c31 N75-32262

SHYLIB, R. E.
Liquid-gas separator for zero gravity
environment Patent
[NASA-CASE-XMS-01492] c05 N70-41297

SHYLY, R. E.
Differential pressure control
[NASA-CASE-MFS-14216] c14 N73-13418

SHREEDEN, R. J.
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c28 N71-20330

SHODDY, L. G.
Insert facing tool
[NASA-CASE-MFS-21485-1] c15 N74-25968

SHYDER, J. A.
Injector for use in high voltage isolators for
liquid feed lines
[NASA-CASE-MPO-11377] c15 N73-27406

SHYDER, L. E.
Particle detection apparatus including a
ballistic pendulum Patent
[NASA-CASE-XMS-04201] c14 N71-22990

SHYDER, R. S.
Method of crystallization
[NASA-CASE-MFS-23001-1] c76 N75-32928

SODD, V. J.
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c24 N72-33681

SOPFEN, G. A.
Automated fluid chemical analyzer Patent
[NASA-CASE-INP-09451] c06 N71-26754

SOHL, G.
Focussing system for an ion source having
apertured electrodes Patent
[NASA-CASE-INP-03332] c09 N71-10618
Ion engine casing construction and method of
making same Patent
[NASA-CASE-INP-06942] c28 N71-23293

SOINI, H. E.
Apparatus for measuring thermal conductivity
Patent
[NASA-CASE-XGS-01052] c14 N71-15992

SOKOLOWSKI, D. E.
Heat exchanger
[NASA-CASE-LEW-12252-1] c34 N75-19579

SOLMON, G.
Error correcting method and apparatus Patent
[NASA-CASE-INP-02748] c08 N71-22749

SOLTIS, D. G.
Method of making membranes
[NASA-CASE-INP-04264] c03 N69-21337

SOHNENSCHEIN, C. E.
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c36 N75-15028

SOHNSEN, G. E.
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c25 N70-41628

SOHNSEN, W. E.
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c09 N75-12969
Jet engine air intake system
[NASA-CASE-ARC-10761-1] c07 N75-31108

SOTER, E. J.
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c05 N74-14845

SOTERLUND, A. W., JR.
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c15 N71-22874

SOUES, W. P.
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c15 N72-18477

SOWA, W. W.
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c28 N72-11708

SPADY, A. A., JR.
Backpack carrier Patent
[NASA-CASE-LAR-10056] c05 N71-12351
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c11 N71-16028

SPAIN, I. L.
Hall effect magnetometer
[NASA-CASE-LEW-11632-1] c14 N72-25440
Hall effect magnetometer
[NASA-CASE-LEW-11632-3] c14 N74-33944
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c35 N75-13213

SPALVINS, T.
Deposition of alloy films
[NASA-CASE-LEW-11262-1] c18 N74-13270

SPARKS, B. H.
An improved fifth wheel
[NASA-CASE-FEC-10081-1] c37 N75-29432

SPARRHAN, M. L.
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c02 N71-11043

SPEISER, R. C.
Focussing system for an ion source having
apertured electrodes Patent
[NASA-CASE-INP-03332] c09 N71-10618

SPENCER, B., JR.
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c31 N71-15674
Variable dihedral shuttle orbiter
[NASA-CASE-LAR-10706-1] c18 N75-16613

SPENCER, D. J.
Data compression system with a minimum time
delay unit Patent
[NASA-CASE-INP-08832] c08 N71-12506

SPENCER, J. L.
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c32 N73-26910

SPENCER, P. E.
Radiation direction detector including means for
compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c14 N70-40239

SPENCER, R. L.
Thickness measuring and injection device Patent

[NASA-CASE-MFS-20261]	c14 N71-27005	[NASA-CASE-NPO-10704]	c15 N72-20445
Ultrasonic scanner for radial and flat panels		STARBER, R. B.	
[NASA-CASE-MFS-20335-1]	c14 N74-10415	Fine frequency measurement by coincidence detection	
SPIER, B. A.		[NASA-CASE-MSC-14649-1]	c32 N75-13124
Portable milling tool Patent		STEELE, R. B.	
[NASA-CASE-XMF-03511]	c15 N71-22799	Satellite aided vehicle avoidance system Patent	
Restraint system for ergometer		[NASA-CASE-ERC-10090]	c21 N71-24948
[NASA-CASE-MFS-21046-1]	c14 N73-27377	Improved satellite aided vehicle avoidance system	
Tilting table for ergometer and for other biomedical devices		[NASA-CASE-ERC-10419]	c21 N72-21631
[NASA-CASE-MFS-21010-1]	c05 N73-30078	Satellite aided vehicle avoidance system	
Vee-notching device		[NASA-CASE-ERC-10419-1]	c03 N75-30132
[NASA-CASE-MFS-20730-1]	c14 N74-13131	STEENHAGEN, G.	
SPIES, B.		Expansible support means	
Observation window for a gas confining chamber		[NASA-CASE-NPO-11059]	c15 N72-17454
[NASA-CASE-NPO-10890]	c11 N73-12265	STEENKEN, J.	
SPITZER, C. R.		Relief valve	
Evaporant holder		[NASA-CASE-XMS-05894-1]	c15 N69-21924
[NASA-CASE-XLA-03105]	c15 N69-27483	STEFURAK, M. L.	
Exposure interlock for oscilloscope cameras		Telemetry processor	
[NASA-CASE-LAR-10319-1]	c14 N73-32322	[NASA-CASE-GSC-11388-1]	c07 N73-24187
SPITZIG, W. A.		STEIN, R. J.	
Method of making a diffusion bonded refractory coating Patent		Continuous detonation reaction engine Patent	
[NASA-CASE-XLE-01604-2]	c15 N71-15610	[NASA-CASE-XMF-06926]	c28 N71-22983
SPRECKACE, R. P.		STEIN, S.	
Method of forming a wick for a heat pipe		Injector-valve device Patent	
[NASA-CASE-NPO-13391-1]	c33 N74-19584	[NASA-CASE-XLE-00303]	c15 N70-36535
SPRINGETT, J. C.		Rocket engine injector Patent	
Phase-shift data transmission system having a pseudoc-noise SYNC code modulated with the data in a single channel Patent		[NASA-CASE-XLE-00111]	c28 N70-38199
[NASA-CASE-XNP-00911]	c08 N70-41961	Rocket engine injector Patent	
Audio system with means for reducing noise effects		[NASA-CASE-XLE-03157]	c28 N71-24736
[NASA-CASE-NPO-11631]	c10 N73-12244	STEINBERG, R.	
SPRINGFIELD, C. L.		Solid state power mapping instrument Patent	
Flammability test chamber Patent		[NASA-CASE-XLE-00301]	c14 N70-36808
[NASA-CASE-KSC-10126]	c11 N71-24985	Molecular beam velocity selector Patent	
Autoignition test cell Patent		[NASA-CASE-XLE-01533]	c11 N71-10777
[NASA-CASE-KSC-10198]	c11 N71-28629	STEINMETZ, C. P.	
SPROSS, F. B.		Energy limiter for hydraulic actuators Patent	
Biological isolation garment Patent		[NASA-CASE-ARC-10131-1]	c15 N71-27754
[NASA-CASE-MSC-12206-1]	c05 N71-17599	STELBEN, J. J.	
SQUILLARI, W.		Recorder/processor apparatus	
System for stabilizing torque between a balloon and gondola		[NASA-CASE-GSC-11553-1]	c07 N74-15831
[NASA-CASE-GSC-11077-1]	c02 N73-13008	STELL, R. B.	
STAHLRY, S. D.		In situ transfer standard for ultrahigh vacuum gage calibration	
Quick attach and release fluid coupling assembly Patent		[NASA-CASE-LAR-10862-1]	c14 N74-15092
[NASA-CASE-XKS-01985]	c15 N71-10782	STELLA, A. J.	
STAINBACK, J. D.		Electrical connector pin with wiping action	
Exposure interlock for oscilloscope cameras		[NASA-CASE-XMF-04238]	c09 N69-39734
[NASA-CASE-LAR-10319-1]	c14 N73-32322	STELZRIED, C. T.	
STALEY, H. W.		Reflectometer for receiver input impedance match measurement Patent	
Pulse amplitude and width detector Patent		[NASA-CASE-XNP-10843]	c07 N71-11267
[NASA-CASE-XMF-06519]	c09 N71-12519	Multi-feed cone Cassegrain antenna Patent	
Pulse rise time and amplitude detector Patent		[NASA-CASE-NPO-10539]	c07 N71-11285
[NASA-CASE-XMF-08804]	c09 N71-24717	Matched thermistors for microwave power meters Patent	
STALEY, R. W.		[NASA-CASE-NPO-10348]	c10 N71-12554
Exposure system for animals Patent		Broadband microwave waveguide window Patent	
[NASA-CASE-XAC-05333]	c11 N71-22875	[NASA-CASE-XNP-08880]	c09 N71-24808
STALLCOP, J. B.		Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards	
Measurement of plasma temperature and density using radiation absorption		[NASA-CASE-NPO-11418-1]	c14 N73-13420
[NASA-CASE-ARC-10598-1]	c25 N74-30156	STENGEL, R. P.	
STALOFF, C.		Wind velocity probing device and method Patent	
Frequency shift keyed demodulator Patent		[NASA-CASE-XLA-02081]	c20 N71-16281
[NASA-CASE-XGS-02889]	c07 N71-11282	STENLUND, S. J.	
STAMPS, J. C.		Rotating mandrel for assembly of inflatable devices Patent	
Television noise reduction device		[NASA-CASE-XLA-04143]	c15 N71-17687
[NASA-CASE-MSC-12607-1]	c32 N75-21485	Traveling sealer for contoured table Patent	
STANGE, W. C.		[NASA-CASE-XLA-01494]	c15 N71-24164
Cyclical bi-directional rotary actuator		STEPHENS, D. G.	
[NASA-CASE-GSC-11883-1]	c37 N75-29430	Flexible ring slosh damping baffle Patent	
STARK, K. W.		[NASA-CASE-LAR-10317-1]	c32 N71-16103
Endless tape cartridge Patent		Instrument for measuring the dynamic behavior of liquids Patent	
[NASA-CASE-XGS-00769]	c14 N70-41647	[NASA-CASE-XLA-05541]	c12 N71-26387
Endless tape transport mechanism Patent		Active vibration isolator for flexible bodies Patent	
[NASA-CASE-XGS-01223]	c07 N71-10609	[NASA-CASE-LAR-10106-1]	c15 N71-27169
Annular slit colloid thruster Patent		Active air cushion control system minimizing vertical cushion response	
[NASA-CASE-GSC-10709-1]	c28 N71-25213	[NASA-CASE-LAR-10531-1]	c02 N73-13023
Micro-pound extended range thrust stand Patent		Recording apparatus	
[NASA-CASE-GSC-10710-1]	c28 N71-27094	[NASA-CASE-LAR-11353-1]	c14 N74-20020
STARK, H. W.		STEPHENS, D. L.	
Solid propellant liner Patent		Automatic closed circuit television arc guidance	
[NASA-CASE-XNP-09744]	c27 N71-16392		
STARKBY, D. J.			
Torsional disconnect unit			

control Patent [NASA-CASE-MFS-13046]	c07-N71-19433	[NASA-CASE-NPO-10173]	c15 N71-24696
STEPHENS, J. B.		STONE, P. A.	
Microbalance including crystal oscillators for measuring contaminants in a gas system Patent		Synchronous servo loop control system Patent	
[NASA-CASE-NPO-10144]	c14 N71-17701	[NASA-CASE-YNP-03744]	c10 N71-20448
Space simulator Patent		STONE, R. W., JR.	
[NASA-CASE-NPO-10141]	c11 N71-24964	Wing upper surface flap	
Wind sensor		[NASA-CASE-LAR-11140-1]	c02 N73-20008
[NASA-CASE-NPO-13462-1]	c35 N75-16807	STONE, L. P.	
Sampler of gas borne particles		Articulated multiple couch assembly Patent	
[NASA-CASE-NPO-13396-1]	c35 N75-21601	[NASA-CASE-MSC-11253]	c05 N71-12343
Solar pond		STONE, R. W., JR.	
[NASA-CASE-NPO-13581-1]	c44 N75-27560	G conditioning suit Patent	
Low cost solar energy collection system		[NASA-CASE-XLA-02898]	c05 N71-20268
[NASA-CASE-NPO-13579-1]	c44 N75-28519	STONE, S. E.	
Cryostat system for temperatures on the order of 2 deg K or less		Fluid sample collector Patent	
[NASA-CASE-NPO-13459-1]	c31 N75-29277	[NASA-CASE-XMS-06767-1]	c14 N71-20435
STERN, H.		STORY, A. W.	
Reversible current control apparatus Patent		System for indicating direction of intruder	
[NASA-CASE-XLA-09371]	c10 N71-18724	aircraft	
STERRETT, J. B.		[NASA-CASE-ERC-10226-1]	c14 N73-16483
Laser grating interferometer Patent		Display system	
[NASA-CASE-XLA-04295]	c16 N71-24170	[NASA-CASE-ERC-10350]	c14 N73-20474
STETSON, A. B.		STRAIGHT, D. E.	
Silicide coatings for refractory metals Patent		Rocket motor system Patent	
[NASA-CASE-XLE-10910]	c18 N71-29040	[NASA-CASE-XLE-00323]	c28 N70-38505
STUDL, R. H.		Gas turbine exhaust nozzle	
Controlled caging and uncaging mechanism Patent		[NASA-CASE-LEW-11569-1]	c28 N74-15453
Application		STRAND, L. D.	
[NASA-CASE-GSC-11063-1]	c03 N70-35584	Solid propellant rocket motor	
STEVENSON, L. E.		[NASA-CASE-NPO-11559]	c28 N73-24784
Aircraft control system		STRANGE, H. G.	
[NASA-CASE-ERC-10439]	c02 N73-19004	Position sensing device employing misaligned	
STEWART, C. E.		magnetic field generating and detecting	
Family of frequency to amplitude converters		apparatus Patent	
[NASA-CASE-MSC-12395]	c09 N72-25257	[NASA-CASE-XGS-07514]	c23 N71-16099
Apparatus for statistical time-series analysis		Self-regulating proportionally controlled	
of electrical signals		heating apparatus and technique	
[NASA-CASE-MSC-12428-1]	c10 N73-25240	[NASA-CASE-GSC-11752-1]	c77 N75-20140
STEWART, R. B.		STRASS, H. K.	
Apparatus and method for generating large mass		Motion picture camera for optical pyrometry Patent	
flow of high temperature air at hypersonic		[NASA-CASE-XLA-00062]	c14 N70-33254
speeds		Light intensity modulator controller Patent	
[NASA-CASE-LAR-10612-1]	c12 N73-28144	[NASA-CASE-XMS-04300]	c09 N71-19479
STEWART, W. L.		STREED, E. R.	
Multistage multiple-reentry turbine Patent		Solar cell Patent	
[NASA-CASE-XLE-00170]	c15 N70-36412	[NASA-CASE-ARC-10050]	c03 N71-33409
Multistage multiple-reentry turbine Patent		STRON, T. H.	
[NASA-CASE-XLE-00085]	c28 N70-39895	Spiral groove seal	
STICKLE, J. W.		[NASA-CASE-XLE-10326-2]	c15 N72-29488
Direct lift control system Patent		Spiral groove seal	
[NASA-CASE-LAR-10249-1]	c02 N71-26110	[NASA-CASE-XLE-10326-4]	c15 N74-15125
STIFFLER, J. J.		STRONG, I. J.	
Error correcting method and apparatus Patent		Stirring apparatus for plural test tubes Patent	
[NASA-CASE-YNP-02748]	c08 N71-22749	[NASA-CASE-XAC-06956]	c15 N71-21177
Encoder/decoder system for a rapidly		STROUP, E. R.	
synchronizable binary code Patent		Electrochemical coulometer and method of forming	
[NASA-CASE-NPO-10342]	c10 N71-33407	same Patent	
STIGBERG, J. D.		[NASA-CASE-XGS-05434]	c03 N71-20491
Optical rotational sensor		STRULL, G.	
[NASA-CASE-KSC-10752-1]	c15 N73-27407	Solid state television camera system Patent	
Signal conditioner test set		[NASA-CASE-XMF-06092]	c07 N71-24612
[NASA-CASE-KSC-10750-1]	c35 N75-12270	STUART, J. L.	
STINE, H. A.		Automated fluid chemical analyzer Patent	
Electric arc apparatus Patent		[NASA-CASE-YNP-09451]	c06 N71-26754
[NASA-CASE-XAC-01677]	c09 N71-20816	STUART, J. W.	
STIRM, R. J.		Fire resistant coating composition Patent	
High voltage, high current Schottky barrier		[NASA-CASE-GSC-10072]	c18 N71-14014
solar cell		Diffuse reflective coating	
[NASA-CASE-NPO-13482-1]	c03 N74-30448	[NASA-CASE-GSC-11214-1]	c06 N73-13128
Schottky barrier laser energy converter		STUCKEY, J. H.	
[NASA-CASE-NPO-13390-1]	c16 N74-32937	Panelized high performance multilayer insulation	
STOCKARD, B. R.		Patent	
Semiconductor p-n junction stress and strain		[NASA-CASE-MFS-14023]	c33 N71-25351
sensor		Cryogenic thermal insulation Patent	
[NASA-CASE-XLA-04980]	c09 N69-27422	[NASA-CASE-YNP-05046]	c33 N71-28892
Method of making semiconductor p-n junction		STUDEHICK, D. K.	
stress and strain sensor		System for stabilizing torque between a balloon	
[NASA-CASE-XLA-04980-2]	c14 N72-28438	and gondola	
STOKES, C. S.		[NASA-CASE-GSC-11077-1]	c02 N73-13008
Barium release system		STUDER, P. A.	
[NASA-CASE-LAR-10670-1]	c06 N73-30097	Electronic beam switching commutator Patent	
Rocket having barium release system to create		[NASA-CASE-XGS-01451]	c09 N71-10677
ion clouds in the upper atmosphere		Direct current motor with stationary armature	
[NASA-CASE-LAR-10670-2]	c31 N74-27360	and field Patent	
STOLLER, F. W.		[NASA-CASE-XGS-05290]	c09 N71-25999
Reversible motion drive system Patent		Helical recorder arrangement for multiple	
		channel recording on both sides of the tape	
		[NASA-CASE-GSC-10614-1]	c09 N72-11224

Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c15 N72-33476

Magnetic bearing
[NASA-CASE-GSC-11079-1] c37 N75-18574

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c33 N75-27254

Magnetic bearing system
[NASA-CASE-GSC-11978-1] c37 N75-27386

STUMP, E. C.
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c06 N73-33076

STUMP, E. C., JR.
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c06 N71-27254

Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c06 N72-20121

Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c06 N72-27144

Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c06 N72-27151

STURGIS, A. C.
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759

STURN, E. G.
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c14 N73-19420

STURNAN, J. C.
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c10 N71-19471

STYLES, C. H.
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c28 N70-33331

SUDEY, J.
Low speed phaselock speed control system
[NASA-CASE-GSC-11127-1] c09 N75-24758

SULLIVAN, D. B.
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c15 N72-25447

SULLIVAN, E. H.
Ablation article and method
[NASA-CASE-LAR-10439-1] c33 N73-27796

SULLIVAN, J. L.
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c54 N75-13534

SULLIVAN, T. E.
Waveguide mixer
[NASA-CASE-ERC-10179] c07 N72-20141

SUMIDA, J. T.
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c05 N74-26625

SUMMERFIELD, D. G.
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c11 N74-17955

SUMMERS, R. H.
Geneva mechanism
[NASA-CASE-NPO-13281-1] c37 N75-13266

SUTLIFF, J. D.
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c02 N70-41630

SWAIN, R. L.
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c28 N70-33331

SWANN, B. T.
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c33 N70-37979

Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c15 N71-26721

SWEAT, J. C.
Emergency escape system Patent
[NASA-CASE-XKS-07814] c15 N71-27067

SWEET, G. E.
Compensating radiometer
[NASA-CASE-XLA-04556] c14 N69-27484

Spherical measurement device
[NASA-CASE-XLA-06683] c14 N72-28436

SWINGLE, R. L.
Compact solar still Patent
[NASA-CASE-XMS-04533] c15 N71-23086

SWIRSKY, B. D.
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c15 N74-21059

SWORDS, B. B.
Adjustable force probe
[NASA-CASE-MFS-20760] c14 N72-33377

SYVERTSON, C. A.
Flight craft Patent
[NASA-CASE-XAC-02058] c02 N71-16087

TADDEO, F. V.
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-INP-00745] c10 N71-28960

TALBOT, M. W.
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c03 N69-25146

Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c10 N71-25950

TALLEY, D. H.
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c14 N71-29134

TARPLEY, J. L.
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c09 N75-25966

TASHBAR, P. W.
System for depositing thin films
[NASA-CASE-MFS-20775-1] c31 N75-12161

TAUB, W. E.
Radial module space station Patent
[NASA-CASE-XMS-01906] c31 N70-41373

Space vehicle system
[NASA-CASE-MSC-12561-1] c31 N74-33303

TAUSWORTHE, B. C.
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c10 N73-27171

TAYLOR, C. J.
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c14 N71-17574

TAYLOR, L. L.
Flexible composite membrane Patent
[NASA-CASE-INP-08837] c18 N71-16210

TAYLOR, L. V.
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c10 N71-27272

TAYLOR, R. A.
Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c05 N74-12778

TAYLOR, R. C.
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c14 N73-19421

TAYLOR, R. E.
Automatic acquisition system for phase-lock loop
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Patent		A self-lubricating bearing	
[NASA-CASE-NPO-10468]	c23 N71-33229	[NASA-CASE-NFS-23009-1]	c37 N75-12328
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WEBBER, E. A.		Lightweight, variable solidity knitted parachute fabric	
Method and apparatus for making curved reflectors Patent		[NASA-CASE-LAR-10776-1]	c02 N74-10034
[NASA-CASE-XLE-08917]	c15 N71-15597	WHITE, F. A.	
Apparatus for making curved reflectors Patent		Coincidence apparatus for detecting particles	
[NASA-CASE-XLE-08917-2]	c15 N71-24836	[NASA-CASE-XLA-07813]	c14 N72-17328
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[NASA-CASE-MSC-12279]	c15 N72-17450	Dual resonant cavity absorption cell Patent	
WEST, R. L.		[NASA-CASE-LAR-10305]	c14 N71-26137
Device for handling printed circuit cards Patent		Resonant waveguide stark cell	
[NASA-CASE-NFS-20453]	c15 N71-29133	[NASA-CASE-LAR-11352-1]	c33 N75-26245
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[NASA-CASE-XMS-02009]	c33 N71-20834	[NASA-CASE-LAR-10841-1]	c15 N74-27900
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The dc-to-dc converters employing staggered phase power switches with two loop control		Continuous magnetic flux pump	
[NASA-CASE-NPO-13512-1]	c33 N75-15876	[NASA-CASE-XNP-01187]	c15 N73-28516
WESTON, K. C.		Superconductive magnetic-field-trapping device	
Heat shield Patent		[NASA-CASE-XNP-01185]	c26 N73-28710
[NASA-CASE-XMS-00486]	c33 N70-33344	Magnetic-flux pump	
WESTPHAL, J. A.		[NASA-CASE-XNP-01188]	c15 N73-32361
Method and apparatus for aligning a laser beam projector Patent		WHITTEN, D. E.	
[NASA-CASE-NPO-11087]	c23 N71-29125	Dual stage check valve	
WETHORE, J. W.		[NASA-CASE-MSC-13587-1]	c15 N73-30459
Aircraft instrument Patent		WHITTENBERGER, J. D.	
[NASA-CASE-XLA-00487]	c14 N70-40157	A zirconium modified nickel-copper alloy	
WETZLER, D. G.		[NASA-CASE-LEW-12245-1]	c26 N75-26087
Thrust-isolating mounting		WIBERG, R. E.	
[NASA-CASE-NFS-21680-1]	c32 N74-27397	Combustion products generating and metering device	
WEZNER, F. S.		[NASA-CASE-GSC-11095-1]	c14 N72-10375
Collapsible reflector Patent		WIBER, R. R.	
[NASA-CASE-XMS-03454]	c09 N71-20658	Automatic thermal switch Patent	
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[NASA-CASE-MSC-10959]	c15 N71-26243	[NASA-CASE-NPO-10634]	c23 N72-25619
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Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient		[NASA-CASE-NPO-13435-1]	c23 N74-28134
[NASA-CASE-ERC-10073-1]	c06 N74-19769	Refrigerated coaxial coupling	
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Wind tunnel microphone structure Patent		WIECH, R. E.	
[NASA-CASE-XNP-00250]	c11 N71-28779	Zeta potential flowmeter Patent	
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WHIPPLE, D. W.		[NASA-CASE-MSC-13932-1]	c08 N74-14920
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WHIPPLE, E. C., JR.		[NASA-CASE-XNP-04816]	c06 N69-39936
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent		WILKEY, J. W., JR.	
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		Automatic inoculating apparatus	
		[NASA-CASE-LAR-11074-1]	c51 N75-13502
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Automatic lightning detection and photographic system
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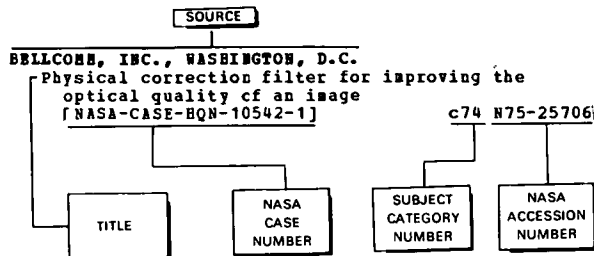
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Section 2

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[NASA-CASE-GSC-11353-1] c23 N74-21304
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[NASA-CASE-XLE-05260] c14 N71-20429

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[NASA-CASE-XMP-02039] c15 N71-15871
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[NASA-CASE-XMP-05279] c18 N71-16124
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[NASA-CASE-XMP-07770-2] c18 N71-26772
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[NASA-CASE-MFS-12532] c18 N72-17532
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[NASA-CASE-MFS-21424-1] c12 N74-27730
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[NASA-CASE-MSC-90153-2] c05 N72-25120
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[NASA-CASE-XMP-04238] c09 N69-39734
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[NASA-CASE-XMP-02107] c15 N71-10809
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[NASA-CASE-XNP-09752] c14 N69-21541
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[NASA-CASE-XNP-07478] c14 N69-21923
Data compression system
[NASA-CASE-XNP-09785] c08 N69-21928
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c25 N69-21929
Electromechanical actuator
[NASA-CASE-XNP-05975] c15 N69-23185
Refrigeration apparatus
[NASA-CASE-NPO-10309] c15 N69-23190
Direct radiation cooling of the collector of linear beam tubes
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Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c09 N69-24329
Telemetry word forming unit
[NASA-CASE-XNP-09225] c09 N69-24333
Solid state switch
[NASA-CASE-XNP-09228] c09 N69-27500
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c15 N69-27504
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[NASA-CASE-XNP-04180] c07 N69-39736
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[NASA-CASE-XNP-09776] c09 N69-39929
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[NASA-CASE-XNP-04816] c06 N69-39936
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[NASA-CASE-XNP-09750] c14 N69-39937
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[NASA-CASE-XNP-04162-1] c08 N70-34675
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[NASA-CASE-NPO-11106] c14 N70-34697
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[NASA-CASE-NPO-10682] c15 N70-34699
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[NASA-CASE-XNP-00733] c06 N70-34946
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[NASA-CASE-XNP-00449] c14 N70-35220
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[NASA-CASE-XNP-00708] c14 N70-35394
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[NASA-CASE-XNP-00465] c21 N70-35395
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[NASA-CASE-XNP-00432] c08 N70-35423
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[NASA-CASE-XNP-00683] c09 N70-35425
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[NASA-CASE-XNP-00646] c14 N70-35666
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[NASA-CASE-XNP-00644] c03 N70-36803
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c14 N70-36907
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[NASA-CASE-XNP-00748]	c07	N70-36911
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[NASA-CASE-XNP-00294]	c21	N70-36938
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[NASA-CASE-XNP-00416]	c15	N70-36947
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[NASA-CASE-XNP-00217]	c28	N70-38181
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[NASA-CASE-XNP-00425]	c11	N70-38202
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[NASA-CASE-XNP-00840]	c15	N70-38225
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[NASA-CASE-XNP-00249]	c28	N70-38249
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[NASA-CASE-XNP-00450]	c15	N70-38603
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[NASA-CASE-XNP-00459]	c11	N70-38675
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[NASA-CASE-XNP-00431]	c09	N70-38998
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[NASA-CASE-XNP-01104]	c28	N70-39931
Electrically-operated rotary shutter Patent		
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[NASA-CASE-XNP-01390]	c28	N70-41275
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[NASA-CASE-XNP-01567]	c15	N70-41310
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[NASA-CASE-XNP-00876]	c28	N70-41311
Reinforcing means for diaphragms Patent		
[NASA-CASE-XNP-01962]	c32	N70-41370
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[NASA-CASE-XNP-00732]	c28	N70-41447
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[NASA-CASE-XNP-02723]	c07	N70-41680
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[NASA-CASE-XNP-01472]	c14	N70-41807
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[NASA-CASE-XNP-01152]	c15	N70-41811
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[NASA-CASE-XNP-01307]	c21	N70-41856
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[NASA-CASE-XNP-01501]	c21	N70-41930
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[NASA-CASE-XNP-05082]	c15	N70-41960
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[NASA-CASE-XNP-00911]	c08	N70-41961
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[NASA-CASE-XNP-03128]	c10	N70-41991
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[NASA-CASE-XNP-01383]	c09	N71-10659
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[NASA-CASE-XNP-03134]	c07	N71-10676
Method for determining the state of charge of batteries by the use of tracers Patent		
[NASA-CASE-XNP-01464]	c03	N71-10728
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[NASA-CASE-XNP-06506]	c03	N71-11050
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[NASA-CASE-XNP-05415]	c08	N71-12505
Data compression system with a minimum time delay unit Patent		
[NASA-CASE-XNP-08832]	c08	N71-12506
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Operational integrator Patent		
[NASA-CASE-NPO-10230]	c09	N71-12520
Starting circuit for vapor lamps and the like Patent		
[NASA-CASE-XNP-01058]	c09	N71-12540
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[NASA-CASE-XNP-00384]	c09	N71-13530
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[NASA-CASE-NPO-10117]	c15	N71-15608
High temperature lens construction Patent		
[NASA-CASE-XNP-04111]	c14	N71-15622
Solder flux which leaves corrosion-resistant coating Patent		
[NASA-CASE-XNP-03459-2]	c18	N71-15688
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[NASA-CASE-XNP-00920]	c15	N71-15906
Dual mode horn antenna Patent		
[NASA-CASE-XNP-01057]	c07	N71-15907
Means for controlling rupture of shock tube diaphragms Patent		
[NASA-CASE-XAC-00731]	c11	N71-15960
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent		
[NASA-CASE-XNP-01193]	c10	N71-16057
Polarimeter for transient measurement Patent		
[NASA-CASE-XNP-08883]	c23	N71-16101
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[NASA-CASE-NPO-10138]	c33	N71-16357
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[NASA-CASE-XNP-08840]	c23	N71-16365
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[NASA-CASE-XNP-09462]	c14	N71-17584
Means and method of measuring viscoelastic strain Patent		
[NASA-CASE-XNP-01153]	c32	N71-17645
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[NASA-CASE-NPO-10320]	c14	N71-17655
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[NASA-CASE-NPO-10300]	c14	N71-17662
Electrical spot terminal assembly Patent		
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[NASA-CASE-NPO-10064]	c15	N71-17693
Incremental motion drive system Patent		
[NASA-CASE-XNP-08897]	c15	N71-17694
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[NASA-CASE-NPO-10144]	c14	N71-17701
Apparatus and method for protecting a photographic device Patent		
[NASA-CASE-NPO-10174]	c14	N71-18465
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[NASA-CASE-NPO-10066]	c09	N71-18598
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[NASA-CASE-NPO-10201]	c08	N71-18694
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent		
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[NASA-CASE-NPO-10068]	c08	N71-19288
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High voltage transistor circuit Patent		
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Electrical switching device Patent		
[NASA-CASE-NPO-10037]	c09	N71-19610
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[NASA-CASE-XNP-04780]	c08	N71-19687
Roll-up solar array Patent		
[NASA-CASE-NPO-10188]	c03	N71-20273
Method and device for determining battery state of charge Patent		
[NASA-CASE-NPO-10194]	c03	N71-20407
Soil particles separator, collector and viewer Patent		
[NASA-CASE-XNP-05770]	c15	N71-20440
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[NASA-CASE-XNP-09775]	c09	N71-20445
Synchronous servo loop control system Patent		
[NASA-CASE-XNP-03744]	c10	N71-20448
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[NASA-CASE-XNP-05763]	c14	N71-20461
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[NASA-CASE-XNP-05254]	c07	N71-20791
Elimination of frequency shift in a multiplex communication system Patent		
[NASA-CASE-XNP-01306]	c07	N71-20814
High power-high voltage waterload Patent		
[NASA-CASE-XNP-05381]	c09	N71-20842
Coaxial cable connector Patent		
[NASA-CASE-XNP-04732]	c09	N71-20851
Soldering with solder flux which leaves corrosion resistant coating Patent		
[NASA-CASE-XNP-03459]	c15	N71-21078
Miniature stress transducer Patent		
[NASA-CASE-XNP-02983]	c14	N71-21091
Holder for crystal resonators Patent		
[NASA-CASE-XNP-03637]	c15	N71-21311
Correlation function apparatus Patent		
[NASA-CASE-XNP-00746]	c07	N71-21476
Split nut separation system Patent		
[NASA-CASE-XNP-06914]	c15	N71-21489
Light position locating system Patent		
[NASA-CASE-XNP-01059]	c23	N71-21821
Electron bombardment ion engine Patent		
[NASA-CASE-XNP-04124]	c28	N71-21822
Data compressor Patent		
[NASA-CASE-XNP-04067]	c08	N71-22707
Error correcting method and apparatus Patent		
[NASA-CASE-XNP-02748]	c08	N71-22749
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[NASA-CASE-XNP-01753]	c08	N71-22897
Friction measuring apparatus Patent		
[NASA-CASE-XNP-08680]	c14	N71-22995
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[NASA-CASE-XNP-01641]	c15	N71-22997
Filler valve Patent		
[NASA-CASE-XNP-01747]	c15	N71-23024
Refrigeration apparatus Patent		
[NASA-CASE-XNP-08877]	c15	N71-23025
Reduced bandwidth video communication system utilizing sampling techniques Patent		
[NASA-CASE-XNP-02791]	c07	N71-23026
Model launcher for wind tunnels Patent		
[NASA-CASE-XNP-03578]	c11	N71-23030
Drive circuit utilizing two cores Patent		
[NASA-CASE-XNP-01318]	c10	N71-23033
Solar vane actuator Patent		
[NASA-CASE-XNP-05535]	c14	N71-23040
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent		
[NASA-CASE-XNP-01056]	c14	N71-23041
Connector internal force gauge Patent		
[NASA-CASE-XNP-03918]	c14	N71-23087
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent		
[NASA-CASE-XNP-02140]	c09	N71-23097
Method of resolving clock synchronization error and means therefor Patent		
[NASA-CASE-XNP-08875]	c10	N71-23099
Impact testing machine Patent		
[NASA-CASE-XNP-04817]	c14	N71-23225
Zeta potential flowmeter Patent		
[NASA-CASE-XNP-06509]	c14	N71-23226
Comparator for the comparison of two binary numbers Patent		
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[NASA-CASE-XNP-03835]	c06	N71-23499
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[NASA-CASE-XNP-03250]	c06	N71-23500
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Millimeter wave radiometer for radio astronomy Patent		
[NASA-CASE-XNP-09832]	c30	N71-23723
Radiant energy intensity measurement system Patent		
[NASA-CASE-XNP-06510]	c14	N71-23797
High speed phase detector Patent		
[NASA-CASE-XNP-01306-2]	c09	N71-24596
Apparatus for testing polymeric materials Patent		
[NASA-CASE-XNP-09699]	c06	N71-24607
Digital synchronizer Patent		
[NASA-CASE-NPO-10851]	c07	N71-24613
Signal processing apparatus for multiplex transmission Patent		
[NASA-CASE-NPO-10388]	c07	N71-24622
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[NASA-CASE-NPO-10567]	c08	N71-24633
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[NASA-CASE-NPO-10150]	c08	N71-24650
Detenting servomotor Patent		
[NASA-CASE-XNP-06936]	c15	N71-24695
Reversible action drive system Patent		
[NASA-CASE-NPO-10173]	c15	N71-24696
Decoder system Patent		
[NASA-CASE-NPO-10118]	c07	N71-24741
Television signal processing system Patent		
[NASA-CASE-NPO-10140]	c07	N71-24742
Switching circuit Patent		
[NASA-CASE-XNP-06505]	c10	N71-24799
Magnetic power switch Patent		
[NASA-CASE-NPO-10242]	c09	N71-24803
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[NASA-CASE-NPO-10198]	c09	N71-24806
Broadband microwave waveguide window Patent		
[NASA-CASE-XNP-08880]	c09	N71-24808
Cavity radiometer Patent		
[NASA-CASE-XNP-08961]	c14	N71-24809
High-gain, broadband traveling wave maser Patent		
[NASA-CASE-NPO-10548]	c16	N71-24831
Fluid containers and resealable septum therefor Patent		
[NASA-CASE-NPO-10123]	c15	N71-24835
Temperature telemetric transmitter Patent		
[NASA-CASE-NPO-10649]	c07	N71-24840
Tuning arrangement for an electron discharge device or the like Patent		
[NASA-CASE-XNP-09771]	c09	N71-24841
Noise limiter Patent		
[NASA-CASE-NPO-10169]	c10	N71-24844
Noninterruptable digital counting system Patent		
[NASA-CASE-XNP-09759]	c08	N71-24891

Drive circuit for minimizing power consumption in inductive load Patent [NASA-CASE-NPO-10716] c09 N71-24892

Space simulator Patent [NASA-CASE-NPO-10141] c11 N71-24964

Process for reducing secondary electron emission Patent [NASA-CASE-XNP-05469] c24 N71-25555

Minimal logic block encoder Patent [NASA-CASE-NPO-10595] c10 N71-25917

Novel polycarboxylic prepolymeric materials and polymers thereof Patent [NASA-CASE-NPO-10596] c06 N71-25929

Current steering switch Patent [NASA-CASE-XNP-08567] c09 N71-26000

Dual polarity full wave dc motor drive Patent [NASA-CASE-XNP-07477] c09 N71-26092

High impact antenna Patent [NASA-CASE-NPQ-10231] c07 N71-26101

Video communication system and apparatus Patent [NASA-CASE-XNP-06611] c07 N71-26102

Parallel generation of the check bits of a PN sequence Patent [NASA-CASE-XNP-04623] c10 N71-26103

Phase multiplying electronic scanning system Patent [NASA-CASE-NPO-10302] c10 N71-26142

Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent [NASA-CASE-NPO-10625] c09 N71-26182

Fluid phase analyzer Patent [NASA-CASE-NPO-10691] c14 N71-26199

Variable frequency nuclear magnetic resonance spectrometer Patent [NASA-CASE-XNP-09830] c14 N71-26266

Time synchronization system utilizing moon reflected coded signals Patent [NASA-CASE-NPO-10143] c10 N71-26326

Broadband stable power multiplier Patent [NASA-CASE-XNP-10854] c10 N71-26331

Cascaded complementary pair broadband transistor amplifiers Patent [NASA-CASE-NPO-10003] c10 N71-26415

Digital memory in which the driving of each word location is controlled by a switch core Patent [NASA-CASE-XNP-01466] c10 N71-26434

Conically shaped cavity radiometer with a dual purpose cone winding Patent [NASA-CASE-XNP-05701] c14 N71-26475

Analog signal integration and reconstruction system Patent [NASA-CASE-NPO-10344] c10 N71-26544

Rapid sync acquisition system Patent [NASA-CASE-NPO-10214] c10 N71-26577

Cryogenic cooling system Patent [NASA-CASE-NPO-10467] c23 N71-26654

Vacuum evaporator with electromagnetic ion steering Patent [NASA-CASE-NPO-10331] c09 N71-26701

Automated fluid chemical analyzer Patent [NASA-CASE-XNP-09451] c06 N71-26754

Material handling device Patent [NASA-CASE-XNP-09770-3] c11 N71-27036

Pressure seal Patent [NASA-CASE-NPO-10796] c15 N71-27068

Multiducted electromagnetic pump Patent [NASA-CASE-NPO-10755] c15 N71-27084

Peak acceleration limiter for vibrational tester Patent [NASA-CASE-NPO-10556] c14 N71-27185

Thin film capacitive bolometer and temperature sensor Patent [NASA-CASE-NPO-10607] c09 N71-27232

Black body cavity radiometer Patent [NASA-CASE-NPO-10810] c14 N71-27323

Video signal enhancement system with dynamic range compression and modulation index expansion Patent [NASA-CASE-NPO-10343] c07 N71-27341

Force-balanced, throttle valve Patent [NASA-CASE-NPO-10808] c15 N71-27432

Cavity emitter for thermionic converter Patent [NASA-CASE-NPO-10412] c09 N71-28421

Frictionless universal joint Patent [NASA-CASE-NPO-10646] c15 N71-28467

Epoxy-aziridine polymer product Patent [NASA-CASE-NPO-10701] c06 N71-28620

Fluid impervious barrier including liquid metal alloy and method of making same Patent [NASA-CASE-XNP-08881] c17 N71-28747

Wind tunnel microphone structure Patent [NASA-CASE-XNP-00250] c11 N71-28779

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Rotable accurate reflector system for telescopes Patent [NASA-CASE-NPO-10468] c23 N71-33229

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Manually actuated heat pump [NASA-CASE-NPO-10677] c05 N72-11084

Virtual wall slot circularly polarized planar array antenna [NASA-CASE-NPO-10301] c07 N72-11148

System for controlling the operation of a variable signal device [NASA-CASE-NPO-11064] c07 N72-11150

Method and apparatus for data compression by a decreasing slope threshold test [NASA-CASE-NPO-10769] c08 N72-11171

Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test [NASA-CASE-NPO-10778] c14 N72-11364

Vibration isolation system using compression springs [NASA-CASE-NPO-11012] c15 N72-11391

Feed system for an ion thruster [NASA-CASE-NPO-10737] c28 N72-11709

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Reference voltage switching unit [NASA-CASE-NPO-11253] c09 N72-17157

Valving device for automatic refilling in cryogenic liquid systems [NASA-CASE-NPO-11177] c15 N72-17453

Expandable support means [NASA-CASE-NPO-11059] c15 N72-17454

Breakaway connector [NASA-CASE-NPO-11140] c15 N72-17455

Modular encoder [NASA-CASE-NPO-10629] c08 N72-18184

Transition tracking bit synchronization system [NASA-CASE-NPO-10844] c07 N72-20140

Data compression system [NASA-CASE-NPO-11243] c07 N72-20154

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Flow rate switch [NASA-CASE-NPO-10722] c09 N72-20199

Electrical connector [NASA-CASE-NPO-10694] c09 N72-20200

Wide band doubler and sine wave quadrature generator [NASA-CASE-NPO-11133] c10 N72-20223

Signal phase estimator [NASA-CASE-NPO-11203] c10 N72-20224

Optimal control system for an electric motor driven vehicle [NASA-CASE-NPO-11210] c11 N72-20244

Impact energy absorbing system utilizing fracturable material

[NASA-CASE-NPO-10671]	c15 N72-20443	Coaxial injector for reaction motors	
Torsional disconnect unit		[NASA-CASE-NPO-11095]	c15 N72-25455
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Solid propellant rocket motor		[NASA-CASE-NPO-11222]	c15 N72-25456
[NASA-CASE-NPO-03282]	c28 N72-20758	Helium refrigerator and method for decontaminating the refrigerator	
Shell side liquid metal boiler		[NASA-CASE-NPO-10634]	c23 N72-25619
[NASA-CASE-NPO-10831]	c33 N72-20915	Uninsulated in-core thermionic diode	
Method and apparatus for mapping planets		[NASA-CASE-NPO-10542]	c09 N72-27228
[NASA-CASE-NPO-11001]	c07 N72-21118	Audio frequency marker system	
Current steering commutator		[NASA-CASE-NPO-11147]	c14 N72-27408
[NASA-CASE-NPO-10743]	c08 N72-21199	Light direction sensor	
Automated equipotential plotter		[NASA-CASE-NPO-11201]	c14 N72-27409
[NASA-CASE-NPO-11134]	c09 N72-21246	Adjustable support	
Pressure transducer		[NASA-CASE-NPO-10721]	c15 N72-27484
[NASA-CASE-NPO-10832]	c14 N72-21405	Method for controlling vapor content of a gas	
Positioning mechanism		[NASA-CASE-NPO-10633]	c03 N72-28025
[NASA-CASE-NPO-10679]	c15 N72-21462	Laser for frequencies in the 7-20 GHz range	
Solid state matrices		[NASA-CASE-NPO-11437]	c16 N72-28521
[NASA-CASE-NPO-10591]	c03 N72-22041	Thin film temperature sensor and method of making same	
Solar cell panels with light transmitting plate		[NASA-CASE-NPO-11775]	c26 N72-28761
[NASA-CASE-NPO-10747]	c03 N72-22042	Circularly polarized antenna	
Oil and fat absorbing polymers		[NASA-CASE-NPO-10214]	c09 N72-31235
[NASA-CASE-NPO-11609-1]	c06 N72-22114	Singly-curved reflector for use in high-gain antennas	
Data multiplexer using tree switching configuration		[NASA-CASE-NPO-11361]	c07 N72-32169
[NASA-CASE-NPO-11333]	c08 N72-22162	Digital slope threshold data compressor	
System for quantizing graphic displays		[NASA-CASE-NPO-11630]	c08 N72-33172
[NASA-CASE-NPO-10745]	c08 N72-22164	Continuously variable voltage controlled phase shifter	
Digital function generator		[NASA-CASE-NPO-11129]	c09 N72-33204
[NASA-CASE-NPO-11104]	c08 N72-22165	Pseudonoise sequence generators with three tap linear feedback shift registers	
Analog-to-digital converter analyzing system		[NASA-CASE-NPO-11406]	c08 N73-12175
[NASA-CASE-NPO-10560]	c08 N72-22166	Versatile arithmetic unit for high speed sequential decoder	
Feedback shift register with states decomposed into cycles of equal length		[NASA-CASE-NPO-11371]	c08 N73-12177
[NASA-CASE-NPO-11082]	c08 N72-22167	Dual frequency microwave reflex feed	
Self-obturing, gas operated launcher		[NASA-CASE-NPO-13091-1]	c09 N73-12214
[NASA-CASE-NPO-11013]	c11 N72-22247	Audio system with means for reducing noise effects	
Optical binocular scanning apparatus		[NASA-CASE-NPO-11631]	c10 N73-12244
[NASA-CASE-NPO-11002]	c14 N72-22441	Interferometer-polarimeter	
Ionene membrane separator		[NASA-CASE-NPO-11239]	c14 N73-12446
[NASA-CASE-NPO-11091]	c18 N72-22567	Irradiance measuring device	
Deployable solar cell array		[NASA-CASE-NPO-11493]	c14 N73-12447
[NASA-CASE-NPO-10883]	c31 N72-22874	Program for computer aided reliability estimation	
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation		[NASA-CASE-NPO-13086-1]	c15 N73-12495
[NASA-CASE-NPO-11388]	c03 N72-23048	Nuclear thermionic converter	
Optical frequency waveguide and transmission system		[NASA-CASE-NPO-13121-1]	c22 N73-12702
[NASA-CASE-NPO-10541-3]	c23 N72-23695	Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system	
Bipropellant injector		[NASA-CASE-NPO-11302-1]	c07 N73-13149
[NASA-CASE-NPO-09461]	c28 N72-23809	Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards	
Solid propellant rocket motor nozzle		[NASA-CASE-NPO-11418-1]	c14 N73-13420
[NASA-CASE-NPO-11458]	c28 N72-23810	Gas flow control device	
Analysis of hydrogen-deuterium mixtures		[NASA-CASE-NPO-11479]	c15 N73-13462
[NASA-CASE-NPO-11322]	c06 N72-25146	Electrolytic gas operated actuator	
Flexible computer accessed telemetry		[NASA-CASE-NPO-11369]	c15 N73-13467
[NASA-CASE-NPO-11358]	c07 N72-25172	Dual purpose momentum wheels for spacecraft with magnetic recording	
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds		[NASA-CASE-NPO-11481]	c21 N73-13644
[NASA-CASE-NPO-11264]	c07 N72-25174	Multiple reflection conical microwave antenna	
Communications link for computers		[NASA-CASE-NPO-11661]	c07 N73-14130
[NASA-CASE-NPO-11161]	c08 N72-25207	Cyclically operable optical shutter	
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier		[NASA-CASE-NPO-10758]	c14 N73-14427
[NASA-CASE-NPO-11338]	c08 N72-25208	Heat detection and compositions and devices therefor	
Binary coded sequential acquisition ranging system		[NASA-CASE-NPO-10764-1]	c14 N73-14428
[NASA-CASE-NPO-11194]	c08 N72-25209	Parallel-plate viscometer with double diaphragm suspension	
MOD 2 sequential function generator for multibit binary sequence		[NASA-CASE-NPO-11387]	c14 N73-14429
[NASA-CASE-NPO-10636]	c08 N72-25210	Rotary actuator	
Digital video display system using cathode ray tube		[NASA-CASE-NPO-10680]	c31 N73-14855
[NASA-CASE-NPO-11342]	c09 N72-25248	Magnetically actuated tuning method for Gunn oscillators	
Inverter oscillator with voltage feedback		[NASA-CASE-NPO-12106]	c09 N73-15235
[NASA-CASE-NPO-10760]	c09 N72-25254	Multichannel telemetry system	
Thermal motor		[NASA-CASE-NPO-11572]	c07 N73-16121
[NASA-CASE-NPO-11283]	c09 N72-25260	Data-aided carrier tracking loops	
Two phase flow system with discrete impinging two-phase jets		[NASA-CASE-NPO-11282]	c10 N73-16205
[NASA-CASE-NPO-11556]	c12 N72-25292	Stacked solar cell arrays	
Atmospheric sampling devices		[NASA-CASE-NPO-11771]	c03 N73-20040
[NASA-CASE-NPO-11373]	c13 N72-25323	A m-ary linear feedback shift register with binary logic	
Light sensor		[NASA-CASE-NPO-11868]	c10 N73-20254
[NASA-CASE-NPO-11311]	c14 N72-25414		
Quick disconnect coupling			
[NASA-CASE-NPO-11202]	c15 N72-25450		

Apparatus for recovering matter adhered to a host surface			
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Scan converting video tape recorder			
[NASA-CASE-NPO-10166-1]	c07	N73-22076	
Cermet composition and method of fabrication			
[NASA-CASE-NPO-13120-1]	c18	N73-23629	
Collapsible structure for an antenna reflector			
[NASA-CASE-NPO-11751]	c07	N73-24176	
Pump for delivering heated fluids			
[NASA-CASE-NPO-11417]	c15	N73-24513	
Ion thruster with a combination keeper electrode and electron baffle			
[NASA-CASE-NPO-11880]	c28	N73-24783	
Solid propellant rocket motor			
[NASA-CASE-NPO-11559]	c28	N73-24784	
Code regenerative clean-up loop transponder for a nu-type ranging system			
[NASA-CASE-NPO-11707]	c07	N73-25161	
Numerical computer peripheral interactive device with manual controls			
[NASA-CASE-NPO-11497]	c08	N73-25206	
Radiant source tracker independent of nonconstant irradiance			
[NASA-CASE-NPO-11686]	c14	N73-25462	
Two carrier communication system with single transmitter			
[NASA-CASE-NPO-11548]	c07	N73-26118	
High pulse rate high resolution optical radar system			
[NASA-CASE-NPO-11426]	c07	N73-26119	
Counting digital filters			
[NASA-CASE-NPO-11821-1]	c08	N73-26175	
Automated attendance accounting system			
[NASA-CASE-NPO-11456]	c08	N73-26176	
Low phase noise digital frequency divider			
[NASA-CASE-NPO-11569]	c10	N73-26229	
Vehicle for use in planetary exploration			
[NASA-CASE-NPO-11366]	c11	N73-26238	
Temperature control system with a pulse width modulated bridge			
[NASA-CASE-NPO-11304]	c14	N73-26430	
Disconnect unit			
[NASA-CASE-NPO-11330]	c33	N73-26958	
Filter for third order phase locked loops			
[NASA-CASE-NPO-11941-1]	c10	N73-27171	
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier			
[NASA-CASE-NPO-11593-1]	c07	N73-28012	
Analog-to-digital converter			
[NASA-CASE-NXP-00477]	c08	N73-28045	
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator			
[NASA-CASE-NXP-03623]	c09	N73-28084	
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials			
[NASA-CASE-NPO-11749]	c14	N73-28486	
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer			
[NASA-CASE-NXP-05231]	c14	N73-28491	
Strain gage mounting assembly			
[NASA-CASE-NPO-13170-1]	c14	N73-28495	
Continuous magnetic flux pump			
[NASA-CASE-NXP-01187]	c15	N73-28516	
Preparation of alkali metal dispersions			
[NASA-CASE-NXP-08876]	c17	N73-28573	
Superconductive magnetic-field-trapping device			
[NASA-CASE-NXP-01185]	c26	N73-28710	
Automatic carrier acquisition system			
[NASA-CASE-NPO-11628-1]	c07	N73-30113	
Ferrofluidic solenoid			
[NASA-CASE-NPO-11738-1]	c09	N73-30185	
Silent emergency alarm system for schools and the like			
[NASA-CASE-NPO-11307-1]	c10	N73-30205	
RF-source resistance meters			
[NASA-CASE-NPO-11291-1]	c14	N73-30388	
Event sequence detector			
[NASA-CASE-NPO-11703-1]	c10	N73-32144	
Soil penetrometer			
[NASA-CASE-NXP-05530]	c14	N73-32321	
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions			
[NASA-CASE-NXP-04231]	c14	N73-32325	
Magnetic-flux pump			
[NASA-CASE-NXP-01188]	c15	N73-32361	
Burrowing apparatus			
[NASA-CASE-NXP-07169]	c15	N73-32362	
Electrostatically controlled heat shutter			
[NASA-CASE-NPO-11942-1]	c33	N73-32818	
Method and apparatus for a single channel digital communications system			
[NASA-CASE-NPO-11302-2]	c07	N74-10132	
Controlled oscillator system with a time dependent output frequency			
[NASA-CASE-NPO-11962-1]	c09	N74-10194	
Low loss dichroic plate			
[NASA-CASE-NPO-13171-1]	c07	N74-11000	
Image data rate converter having a drum with a fixed head and a rotatable head			
[NASA-CASE-NPO-11659-1]	c14	N74-11283	
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver			
[NASA-CASE-NPO-11919-1]	c14	N74-11284	
Digital second-order phase-locked loop			
[NASA-CASE-NPO-11905-1]	c08	N74-12887	
Automatic vehicle location system			
[NASA-CASE-NPO-11850-1]	c09	N74-12912	
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control			
[NASA-CASE-NPO-11317-2]	c16	N74-13205	
Use of thin film light detector			
[NASA-CASE-NPO-11432-2]	c14	N74-15090	
Temperature compensated digital inertial sensor			
[NASA-CASE-NPO-13044-1]	c14	N74-15094	
Compact hydrogenator			
[NASA-CASE-NPO-11682-1]	c15	N74-15127	
Short range laser obstacle detector			
[NASA-CASE-NPO-11856-1]	c16	N74-15145	
Shared memory for a fault-tolerant computer			
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System for stabilizing cable phase delay utilizing a coaxial cable under pressure			
[NASA-CASE-NPO-13138-1]	c09	N74-17927	
Method of forming a wick for a heat pipe			
[NASA-CASE-NPO-13391-1]	c33	N74-19584	
Storage battery comprising negative plates of a wedge shaped configuration			
[NASA-CASE-NPO-11806-1]	c03	N74-19693	
Gated compressor, distortionless signal limiter			
[NASA-CASE-NPO-11820-1]	c07	N74-19788	
Apparatus for scanning the surface of a cylindrical body			
[NASA-CASE-NPO-11861-1]	c14	N74-20009	
Decision feedback loop for tracking a polyphase modulated carrier			
[NASA-CASE-NPO-13103-1]	c07	N74-20811	
Optically actuated two position mechanical mover			
[NASA-CASE-NPO-13105-1]	c15	N74-21060	
Thin film gauge			
[NASA-CASE-NPO-10617-1]	c14	N74-22095	
High isolation RF signal selection switches			
[NASA-CASE-NPO-13081-1]	c07	N74-22814	
Single reflector interference spectrometer and drive system therefor			
[NASA-CASE-NPO-11932-1]	c14	N74-23040	
Scanning nozzle plating system			
[NASA-CASE-NPO-11758-1]	c15	N74-23065	
Rock sampling			
[NASA-CASE-NXP-10007-1]	c15	N74-23068	
Rock sampling			
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[NASA-CASE-NPO-13065-1]	c05	N74-26625	
Dispensing targets for ion beam particle generators			
[NASA-CASE-NPO-13112-1]	c11	N74-26767	
Optically detonated explosive device			
[NASA-CASE-NPO-11743-1]	c33	N74-27425	
Brushless dc motor with wound rotor			
[NASA-CASE-NPO-13437-1]	c09	N74-27688	
Dichroic plate			
[NASA-CASE-NPO-13506-1]	c09	N74-27690	
An improved helium refrigerator			
[NASA-CASE-NPO-13435-1]	c23	N74-28134	
High voltage, high current Schottky barrier solar cell			
[NASA-CASE-NPO-13482-1]	c03	N74-30448	
Coherent receiver employing nonlinear coherence detection for carrier tracking			
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Electric arc apparatus Patent [NASA-CASE-XAC-01677]	c09 N71-20816	Space suit having improved waist and torso movement [NASA-CASE-ARC-10275-1]	c05 N72-22092
Inertia diaphragm pressure transducer Patent [NASA-CASE-XAC-02981]	c14 N71-21072	RF controlled solid state switch [NASA-CASE-ARC-10136-1]	c09 N72-22202
Stirring apparatus for plural test tubes Patent [NASA-CASE-XAC-06956]	c15 N71-21177	Wide range dynamic pressure sensor [NASA-CASE-ARC-10263-1]	c14 N72-22438
Exposure system for animals Patent [NASA-CASE-XAC-05333]	c11 N71-22875	Method and apparatus for measuring the damping characteristics of a structure [NASA-CASE-ARC-10154-1]	c14 N72-22440
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent [NASA-CASE-XAC-02807]	c09 N71-23021	Magnetic position detection method and apparatus [NASA-CASE-ARC-10179-1]	c21 N72-22619
Hall current measuring apparatus having a series resistor for temperature compensation Patent [NASA-CASE-XAC-01662]	c14 N71-23037	Fluidic proportional thruster system [NASA-CASE-ARC-10106-1]	c28 N72-22769
Transfer valve Patent [NASA-CASE-XAC-01158]	c15 N71-23051	Thermoelectric radiometer utilizing polymer film [NASA-CASE-ARC-10138-1]	c14 N72-24477
Hard space suit Patent [NASA-CASE-XAC-07043]	c05 N71-23161	Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines [NASA-CASE-ARC-10325]	c06 N72-25147
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent [NASA-CASE-XAC-05422]	c04 N71-23185	Stereoscopic television system and apparatus [NASA-CASE-ARC-10160-1]	c23 N72-27728
Feedback integrator with grounded capacitor Patent [NASA-CASE-XAC-10607]	c10 N71-23669	Metallic intrusion detector system [NASA-CASE-ARC-10265-1]	c10 N72-28240
Floating two force component measuring device Patent [NASA-CASE-XAC-04885]	c14 N71-23790	Apparatus for ionization analysis [NASA-CASE-ARC-10017-1]	c14 N72-29464
Control device Patent [NASA-CASE-XAC-10019]	c15 N71-23809	Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas [NASA-CASE-ARC-10308-1]	c06 N72-31141
Means for suppressing or attenuating bending motion of elastic bodies Patent [NASA-CASE-XAC-05632]	c32 N71-23971	Two degree inverted flexure [NASA-CASE-ARC-10345-1]	c15 N73-12488
Device for measuring pressure Patent [NASA-CASE-XAC-04458]	c14 N71-24232	Intumescent paint containing nitrile rubber [NASA-CASE-ARC-10196-1]	c18 N73-13562
Transducer circuit and catheter transducer Patent [NASA-CASE-ARC-10132-1]	c09 N71-24597	Miniature ingestible telemeter devices to measure deep body temperature [NASA-CASE-ARC-10583-1]	c05 N73-14093
Skeletal stressing method and apparatus Patent [NASA-CASE-ARC-10100-1]	c05 N71-24738	Temperature compensated light source using a light emitting diode [NASA-CASE-ARC-10467-1]	c09 N73-14214
Modified polyurethane foams for fuel-fire Patent [NASA-CASE-ARC-10098-1]	c06 N71-24739	Self-tuning bandpass filter [NASA-CASE-ARC-10264-1]	c09 N73-20231
Deep space monitor communication satellite system Patent [NASA-CASE-XAC-06029-1]	c31 N71-24813	Micrometeoroid analyzer [NASA-CASE-ARC-10443-1]	c14 N73-20477
Laser fluid velocity detector Patent [NASA-CASE-XAC-10770-1]	c16 N71-24828	Multiple pass reimaging optical system [NASA-CASE-ARC-10194-1]	c23 N73-20741
Transient video signal recording with expanded playback Patent [NASA-CASE-ARC-10003-1]	c09 N71-25866	Intruder detection system [NASA-CASE-ARC-10097-2]	c07 N73-25160
Thermally cycled magnetometer Patent [NASA-CASE-XAC-03740]	c14 N71-26135	Interferometric rotation sensor [NASA-CASE-ARC-10278-1]	c14 N73-25463
Optical machine tool alignment indicator Patent [NASA-CASE-XAC-05489-1]	c15 N71-26673	Dual-fuselage aircraft having yawable wing and horizontal stabilizer [NASA-CASE-ARC-10470-1]	c02 N73-26005
Energy limiter for hydraulic actuators Patent [NASA-CASE-ARC-10131-1]	c15 N71-27754	Temperature controller for a fluid cooled garment [NASA-CASE-ARC-10599-1]	c05 N72-26071
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent [NASA-CASE-ARC-10137-1]	c09 N71-28468	Visual examination apparatus [NASA-CASE-ARC-10329-1]	c05 N73-26072
Locomotion and restraint aid Patent [NASA-CASE-ARC-10153]	c05 N71-28619	Intumescent composition, foamed product prepared therewith, and process for making same [NASA-CASE-ARC-10304-1]	c18 N73-26572
Line following servosystem Patent [NASA-CASE-XAC-00001]	c15 N71-28952	Infrared tunable laser [NASA-CASE-ARC-10463-1]	c09 N73-32111
Mechanically limited, electrically operated hydraulic valve system for aircraft controls		Low power electromagnetic flowmeter providing accurate zero set [NASA-CASE-ARC-10362-1]	c14 N73-32326

Protection of moisture sensitive optical components
[NASA-CASE-ARC-10749-1] c23 N73-32542

All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c31 N73-32784

Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c14 N73-33361

Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c16 N73-33397

Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c18 N74-11366

Ultra-flexible biomedical electrodes and wires
[NASA-CASE-ARC-10268-2] c05 N74-11900

Ultra-flexible biomedical electrode and wires
[NASA-CASE-ARC-10268-3] c05 N74-11901

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c06 N74-11926

Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c06 N74-12812

Flexible fire retardant polyisocyanate modified neoprene foam
[NASA-CASE-ARC-10180-1] c06 N74-12814

Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c18 N74-14230

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2(B)] c09 N74-14941

Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c14 N74-15093

Binmetallic fluid displacement apparatus
[NASA-CASE-ARC-10441-1] c15 N74-15126

Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c04 N74-15778

Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c15 N74-16139

Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c18 N74-16249

Overvoltage protection network
[NASA-CASE-ARC-10197-1] c09 N74-17929

Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c14 N74-18099

Visual examination apparatus
[NASA-CASE-ARC-10329-2] c05 N74-19761

Ultrasonic biomedical measuring and recording apparatus
[NASA-CASE-ARC-10597-1] c05 N74-20726

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c18 N74-21156

High speed shutter
[NASA-CASE-ARC-10516-1] c23 N74-21300

Bio-isolated dc operational amplifier
[NASA-CASE-ARC-10596-1] c09 N74-21851

Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c05 N74-22771

Chromato-fluorographic drug detector
[NASA-CASE-ARC-10633-1] c14 N74-26947

Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c18 N74-27037

Photomultiplier circuit including means for rapidly reducing the sensitivity thereof
[NASA-CASE-ARC-10593-1] c09 N74-27682

G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c14 N74-27872

Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c14 N74-27875

Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c15 N74-27901

Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c09 N74-29577

Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c14 N74-29772

Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-1] c14 N74-29773

Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c25 N74-30156

Single wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c01 N74-30414

Vehicle simulator kinocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c11 N74-32718

Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c28 N74-33218

Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c33 N74-33379

Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c02 N74-34475

A method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector
[NASA-CASE-ARC-10631-1] c14 N74-34864

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c25 N75-12086

Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c25 N75-12087

Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c35 N75-12275

Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c74 N75-12732

Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930

Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c09 N75-12969

Water purification process
[NASA-CASE-ARC-10643-2] c51 N75-13506

Continuous Fourier transform method and apparatus
[NASA-CASE-ARC-10466-1] c60 N75-13539

System for measuring Reynolds stress in a turbulently flowing fluid
[NASA-CASE-ARC-10755-2] c34 N75-16770

Dual wavelength scanning Doppler velocimeter
[NASA-CASE-ARC-10637-1] c35 N75-16783

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c35 N75-18536

Signal conditioning circuit apparatus
[NASA-CASE-ARC-10348-1] c33 N75-19518

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c33 N75-19520

Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c35 N75-20685

Reversed cowl flap inlet thrust augmentor
[NASA-CASE-ARC-10754-1] c07 N75-24736

Process for preparing low density polybenzimidazole foams
[NASA-CASE-ARC-10823-1] c27 N75-24938

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c33 N75-25041

High speed data monitoring apparatus
[NASA-CASE-ARC-10899-1] c35 N75-25127

Rotary plant growth accelerating apparatus
[NASA-CASE-ARC-10722-1] c51 N75-25503

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c05 N75-25915

Preparation of dielectric coatings of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-1] c27 N75-26136

Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c35 N75-26334

Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c54 N75-27760

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c33 N75-29318

Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c33 N75-29320

G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381

NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c35 N75-30502

Jet engine air intake system
[NASA-CASE-ARC-10761-1] c07 N75-31108

Diatom infrared gasdynamic laser
[NASA-CASE-ARC-10370-1] c36 N75-31426

Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c34 N75-32389

Metallic hot wire anemometer and method for fabricating the same
[NASA-CASE-ARC-10911-1] c35 N75-32426

Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c37 N75-32465

Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c54 N75-32766

Smoke generator
[NASA-CASE-ARC-10905-1] c31 N75-33278

Thermistor holder for skin temperature measurements
[NASA-CASE-ABC-10855-1] c52 N75-33642

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ELECTRONICS RESEARCH CENTER, CAMBRIDGE, MASS.**

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c16 N69-31343

A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c26 N69-33482

Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c15 N70-10867

A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c09 N70-11148

Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c09 N71-12539

Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c26 N71-14354

Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c16 N71-15551

Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c16 N71-15567

Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c14 N71-18483

Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c09 N71-18721

Array phasing device Patent
[NASA-CASE-ERC-10046] c10 N71-18722

Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c09 N71-23598

Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c09 N71-24800

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c16 N71-24832

Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c23 N71-24868

Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c09 N71-24893

Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c15 N71-24896

Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c15 N71-24910

Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c21 N71-24948

Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c26 N71-25490

A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c10 N71-25900

Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c16 N71-26154

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c15 N71-26635

Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c14 N71-26672

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c09 N71-26678

Voltage regulator Patent
[NASA-CASE-ERC-10113] c09 N71-27053

A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c14 N71-27090

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c14 N71-27334

Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c09 N71-27364

Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c15 N71-28465

Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c09 N71-28618

Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c14 N71-28863

Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c14 N71-28992

Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c14 N71-28994

Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c07 N71-29065

Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c16 N71-29131

Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c09 N71-33519

Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c14 N72-17323

Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c23 N72-17747

Improved satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419] c21 N72-21631

Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c09 N72-23173

Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c10 N72-27246

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FLIGHT RESEARCH CENTER, EDWARDS, CALIF.**

Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c14 N69-27503

Three axis controller Patent
[NASA-CASE-XFR-00181] c21 N70-33279

Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c15 N70-36901

Two-axis controller Patent
[NASA-CASE-XFR-04104] c03 N70-42073

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c11 N71-10748

Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c05 N71-11189

Lifting body Patent Application
[NASA-CASE-FRC-10063] c01 N71-12217

Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c02 N71-13421

Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c15 N71-22994

Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c33 N71-23085

Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c15 N71-23254

Traversing probe Patent
[NASA-CASE-XFR-02007] c12 N71-24692

Layout tool Patent
[NASA-CASE-FRC-10005] c15 N71-26145

Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c09 N72-22200

Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c14 N73-27379

Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c14 N74-13129

Terminal guidance system
[NASA-CASE-FRC-10049-1] c21 N74-13420

Full wave modulator-demodulator amplifier apparatus
[NASA-CASE-FRC-10072-1] c09 N74-14939

Rotating raster generator
[NASA-CASE-FRC-10071-1] c07 N74-20813

An improved fifth wheel
[NASA-CASE-FRC-10081-1] c37 N75-29432

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GODDARD SPACE FLIGHT CENTER, GREENBELT, MD.**

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c03 N69-21330

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c14 N69-21363

Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c15 N69-21472

Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c09 N69-21543

Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c09 N69-24317

Spacecraft battery seals
[NASA-CASE-XGS-03864] c15 N69-24320

Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c14 N69-27432

Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c07 N69-27460

Ring counter
[NASA-CASE-XGS-03095] c09 N69-27463

Retrodirective optical system
[NASA-CASE-XGS-04480] c16 N69-27491

Time division multiplex system
[NASA-CASE-XGS-05918] c07 N69-39974

Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c07 N69-39978

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c18 N69-39979

Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c14 N69-39982

Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c14 N70-34158

Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c21 N70-34297

Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c08 N70-34743

Full binary adder Patent
[NASA-CASE-XGS-00689] c08 N70-34787

Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c09 N70-34819

Controlled caging and uncaging mechanism Patent Application
[NASA-CASE-GSC-11063-1] c03 N70-35584

Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c31 N70-37924

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c09 N70-38604

Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c03 N70-38713

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c09 N70-38995

Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c30 N70-40016

Folding boom assembly Patent
[NASA-CASE-XGS-00938] c32 N70-41367

Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c15 N70-41629

Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c14 N70-41647

Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c14 N70-41676

Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c07 N70-41678

Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c03 N70-41864

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c10 N70-41964

Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c07 N71-10609

Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c09 N71-10673

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c09 N71-10677

Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c21 N71-10678

Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c03 N71-11053

Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c03 N71-11058

Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c07 N71-11282

Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c07 N71-12392

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c08 N71-12494

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c21 N71-13958

Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c18 N71-14014

Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c28 N71-14044

Attitude control system Patent
[NASA-CASE-XGS-04393] c21 N71-14159

Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c14 N71-15605

Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c21 N71-15642

Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c31 N71-15676

Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c14 N71-15962

Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c23 N71-15978

Method for etching copper Patent
[NASA-CASE-XGS-06306] c17 N71-16044

Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c18 N71-16046

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c07 N71-16088

Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c30 N71-16090

Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c23 N71-16099

Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c23 N71-16100

Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c31 N71-16102

Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c24 N71-16213

Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c23 N71-16341

Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c14 N71-17585

Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c14 N71-17627

Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c30 N71-17788

Method of making tubes Patent
[NASA-CASE-XGS-04175] c15 N71-18579

Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c08 N71-18595

Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c08 N71-18602

Computing apparatus Patent
[NASA-CASE-XGS-04765] c08 N71-18693

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c10 N71-18772

Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c02 N71-19287

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c14 N71-19431

Synchronous counter Patent
[NASA-CASE-XGS-02440] c08 N71-19432

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c08 N71-19435

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c08 N71-19437

Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c03 N71-19438

Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c09 N71-19466

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c07 N71-19854

Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c03 N71-20491

Display for binary characters Patent
[NASA-CASE-XGS-04987] c08 N71-20571

Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c10 N71-20782

Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c10 N71-20841

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c10 N71-20852

Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c09 N71-20864

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c08 N71-21042

Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c31 N71-21064

Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c14 N71-21082

Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c15 N71-21529

Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c15 N71-21744

Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c15 N71-22705

Precision thrust gage Patent
[NASA-CASE-XGS-02319] c14 N71-22965

Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c03 N71-22974

Rotary head dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-02304] c09 N71-22988

Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c14 N71-22992

Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c14 N71-22996

Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c18 N71-22998

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c07 N71-23001

Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c03 N71-23006

Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c31 N71-23009

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c09 N71-23015

Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c10 N71-23029

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c14 N71-23174

Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-02390] c03 N71-23187

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c09 N71-23311

Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c03 N71-23336

Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c09 N71-23525

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c09 N71-23573

Apparatus for phase stability determination Patent
[NASA-CASE-XGS-01118] c10 N71-23662

Tape recorder Patent
[NASA-CASE-XGS-08259] c14 N71-23698

Balance torque meter Patent
[NASA-CASE-XGS-01013] c14 N71-23725

Mechanical actuator Patent
[NASA-CASE-XGS-04548] c15 N71-24045

Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c15 N71-24047

Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c18 N71-24183

Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c14 N71-24233

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c09 N71-24595

Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c15 N71-24600

Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c07 N71-24621

Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c07 N71-24624

Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c03 N71-24719

Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c09 N71-24804

Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c28 N71-25213

Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c10 N71-25882

Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c09 N71-25999

Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c10 N71-26085

Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c10 N71-26374

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c10 N71-26418

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c10 N71-26531

Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c10 N71-26626

Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c19 N71-26674

Resetttable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c09 N71-27016

Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c28 N71-27094

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c10 N71-27136

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c07 N71-27233

Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c21 N71-27324

Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c16 N71-28554

Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c07 N71-28965

Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c08 N71-29033

Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c08 N71-33110

Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c14 N72-10375

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c08 N72-11172

Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c09 N72-11224

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c23 N72-11568

Position location system and method
[NASA-CASE-GSC-10087-3] c07 N72-12080

Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c07 N72-12081

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c03 N72-15986

Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c14 N72-16283

Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c15 N72-18477

Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c28 N72-18766

Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c03 N72-20031

Monostable multivibrator			
[NASA-CASE-GSC-10082-1]	c10	N72-20221	
Roll alignment detector			
[NASA-CASE-GSC-10514-1]	c14	N72-20379	
Cosmic dust sensor			
[NASA-CASE-GSC-10503-1]	c14	N72-20381	
Solenoid valve including guide for armature and valve member			
[NASA-CASE-GSC-10607-1]	c15	N72-20442	
Fast response low power drain logic circuits			
[NASA-CASE-GSC-10878-1]	c10	N72-22236	
Trap for preventing diffusion pump backstreaming			
[NASA-CASE-GSC-10518-1]	c15	N72-22489	
Resistance soldering apparatus			
[NASA-CASE-GSC-10913]	c15	N72-22491	
Optical system support apparatus			
[NASA-CASE-XER-07896-2]	c23	N72-22673	
SCR lamp driver			
[NASA-CASE-GSC-10221-1]	c09	N72-23171	
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[NASA-CASE-GSC-10361-1]	c18	N72-23581	
Synchronous orbit battery cycler			
[NASA-CASE-GSC-11211-1]	c03	N72-25020	
Flavin coenzyme assay			
[NASA-CASE-GSC-10565-1]	c06	N72-25149	
Location identification system			
[NASA-CASE-ERC-10324]	c07	N72-25173	
A dc to ac to dc converter having transistor synchronous rectifiers			
[NASA-CASE-GSC-11126-1]	c09	N72-25253	
Tungsten contacts on silicon substrates			
[NASA-CASE-GSC-10695-1]	c09	N72-25259	
Bacterial contamination monitor			
[NASA-CASE-GSC-10879-1]	c14	N72-25413	
Honeycomb panels formed of minimal surface periodic tubule layers			
[NASA-CASE-ERC-10364]	c18	N72-25540	
Honeycomb core structures of minimal surface tubule sections			
[NASA-CASE-ERC-10363]	c18	N72-25541	
Gunn-type solid state devices			
[NASA-CASE-XER-07895]	c26	N72-25679	
Use of unilluminated solar cells as shunt diodes for a solar array			
[NASA-CASE-GSC-10344-1]	c03	N72-27053	
Active tuned circuit			
[NASA-CASE-GSC-11340-1]	c10	N72-33230	
Electric motive machine including magnetic bearing			
[NASA-CASE-XGS-07805]	c15	N72-33476	
Cosmic dust or other similar outer space particles impact location detector			
[NASA-CASE-GSC-11291-1]	c25	N72-33696	
Method and apparatus for determining the contents of contained gas samples			
[NASA-CASE-GSC-10903-1]	c14	N73-12444	
System for stabilizing torque between a balloon and gondola			
[NASA-CASE-GSC-11077-1]	c02	N73-13008	
Diffuse reflective coating			
[NASA-CASE-GSC-11214-1]	c06	N73-13128	
Data processor with conditionally supplied clock signals			
[NASA-CASE-GSC-10975-1]	c08	N73-13187	
Apparatus for vibrational testing of articles			
[NASA-CASE-GSC-11302-1]	c14	N73-13416	
Method and system for ejecting fairing sections from a rocket vehicle			
[NASA-CASE-GSC-10590-1]	c31	N73-14853	
Plural beam antenna			
[NASA-CASE-GSC-11013-1]	c09	N73-19234	
Star tracking reticles and process for the production thereof			
[NASA-CASE-GSC-11188-2]	c21	N73-19630	
Delayed simultaneous release mechanism			
[NASA-CASE-GSC-10814-1]	c03	N73-20039	
Doppler compensation by shifting transmitted object frequency within limits			
[NASA-CASE-GSC-10087-4]	c07	N73-20174	
Telemetry processor			
[NASA-CASE-GSC-11388-1]	c07	N73-24187	
Signal-to-noise ratio determination circuit			
[NASA-CASE-GSC-11239-1]	c10	N73-25241	
Nutation damper			
[NASA-CASE-GSC-11205-1]	c15	N73-25513	
Low outgassing polydimethylsiloxane material and preparation thereof			
[NASA-CASE-GSC-11358-1]	c06	N73-26100	
Method of detecting and counting bacteria in body fluids			
[NASA-CASE-GSC-11092-2]	c04	N73-27052	
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves			
[NASA-CASE-GSC-10225-1]	c06	N73-27086	
Process for making RP shielded cable connector assemblies and the products formed thereby			
[NASA-CASE-GSC-11215-1]	c09	N73-28083	
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body			
[NASA-CASE-GSC-11444-1]	c14	N73-28490	
Microscope multi-angle, reflection, viewing adaptor and photographic recording system			
[NASA-CASE-GSC-11690-1]	c14	N73-28499	
Pastener stretcher			
[NASA-CASE-GSC-11149-1]	c15	N73-30457	
Spacecraft attitude sensor			
[NASA-CASE-GSC-10890-1]	c21	N73-30640	
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions			
[NASA-CASE-GSC-11169-2]	c05	N73-32011	
Star tracking reticles			
[NASA-CASE-GSC-11188-1]	c14	N73-32320	
Peen plating			
[NASA-CASE-GSC-11163-1]	c15	N73-32360	
Ultraviolet light reflective coating			
[NASA-CASE-GSC-11786-1]	c18	N74-10542	
Recorder/processor apparatus			
[NASA-CASE-GSC-11553-1]	c07	N74-15831	
Axially and radially controllable magnetic bearing			
[NASA-CASE-GSC-11551-1]	c15	N74-18132	
Method of making porous conductive supports for electrodes			
[NASA-CASE-GSC-11367-1]	c03	N74-19692	
Formation of star tracking reticles			
[NASA-CASE-GSC-11188-3]	c14	N74-20008	
Radiation hardening of MOS devices by boron			
[NASA-CASE-GSC-11425-1]	c24	N74-20329	
Amplitude steered array			
[NASA-CASE-GSC-11446-1]	c09	N74-20860	
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly			
[NASA-CASE-GSC-11560-1]	c09	N74-20861	
Ultra-stable oscillator with complementary transistors			
[NASA-CASE-GSC-11513-1]	c09	N74-20862	
High efficiency multifrequency feed			
[NASA-CASE-GSC-11317-3]	c09	N74-20863	
Turnstile slot antenna			
[NASA-CASE-GSC-11428-1]	c09	N74-20864	
Method and apparatus for checking fire detectors			
[NASA-CASE-GSC-11600-1]	c14	N74-21019	
Long range laser traversing system			
[NASA-CASE-GSC-11262-1]	c16	N74-21091	
Method and apparatus for optically monitoring the angular position of a rotating mirror			
[NASA-CASE-GSC-11353-1]	c23	N74-21304	
Image tube			
[NASA-CASE-GSC-11602-1]	c09	N74-21850	
Polarization compensator for optical communications			
[NASA-CASE-GSC-11782-1]	c07	N74-22827	
High voltage distributor			
[NASA-CASE-GSC-11849-1]	c09	N74-22873	
Apparatus for controlling the temperature of balloon-borne equipment			
[NASA-CASE-GSC-11620-1]	c14	N74-23039	
Coaxial anode wire for gas radiation counters			
[NASA-CASE-GSC-11492-1]	c14	N74-26949	
Arterial pulse wave pressure transducer			
[NASA-CASE-GSC-11531-1]	c05	N74-27566	
Heat flow calorimeter			
[NASA-CASE-GSC-11434-1]	c14	N74-27859	
Air conditioning system and component therefore distributing air flow from opposite directions			
[NASA-CASE-GSC-11445-1]	c15	N74-27902	
Passive dual spin misalignment compensators			
[NASA-CASE-GSC-11479-1]	c21	N74-28097	
Apparatus for simulating optical transmission links			
[NASA-CASE-GSC-11877-1]	c07	N74-30532	
Star scanner			
[NASA-CASE-GSC-11569-1]	c14	N74-30886	
Millimeter wave pumped parametric amplifier			
[NASA-CASE-GSC-11617-1]	c09	N74-32660	
Variable beamwidth antenna			
[NASA-CASE-GSC-11862-1]	c09	N74-32674	

Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c14 N74-32887

Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c14 N74-32888

Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c15 N74-33997

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-2] c15 N74-34002

Two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c09 N74-34649

Structural heat pipe
[NASA-CASE-GSC-11619-1] c34 N75-12222

Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c15 N75-13007

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c37 N75-15992

Inrush current limiter
[NASA-CASE-GSC-11789-1] c33 N75-16748

Automatic character skew and spacing checking network
[NASA-CASE-GSC-11925-1] c35 N75-16792

Magnetic bearing
[NASA-CASE-GSC-11079-1] c37 N75-18574

Dish antenna having switchable beamwidth
[NASA-CASE-GSC-11760-1] c33 N75-19516

X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c33 N75-19517

Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c33 N75-19522

Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c36 N75-19654

Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c77 N75-20140

Improved method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c51 N75-21921

Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c17 N75-22365

Speech analyzer
[NASA-CASE-GSC-11898-1] c32 N75-22563

Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c35 N75-22687

Low speed phaselock speed control system
[NASA-CASE-GSC-11127-1] c09 N75-24758

Modulator for tone and binary signals
[NASA-CASE-GSC-11743-1] c32 N75-24981

Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c33 N75-25040

Magnetic tape head function switching system
[NASA-CASE-GSC-11956-1] c35 N75-25134

Radiation hardening of MOS devices by boron
[NASA-CASE-GSC-11425-2] c76 N75-25730

Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c09 N75-25966

Correlation type phase detector
[NASA-CASE-GSC-11744-1] c33 N75-26243

Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c33 N75-26252

Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c37 N75-26371

Application of luciferase assay for ATP to antimicrobial drug susceptibility testing
[NASA-CASE-GSC-12039-1] c51 N75-26629

Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c33 N75-27254

Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N75-27265

Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331

Magnetic bearing system
[NASA-CASE-GSC-11978-1] c37 N75-27386

Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c37 N75-29430

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Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c14 N69-39785

Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c15 N71-10782

Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c09 N71-13521

Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c31 N71-15566

Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c14 N71-15600

Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c07 N71-19493

Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c15 N71-21234

Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c09 N71-22796

Optical monitor panel Patent
[NASA-CASE-XKS-03509] c14 N71-23175

Separation simulator Patent
[NASA-CASE-XKS-04631] c10 N71-23663

Controlled release device Patent
[NASA-CASE-XKS-03338] c15 N71-24043

Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c05 N71-24606

VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c07 N71-24614

BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c08 N71-24890

Flammability test chamber Patent
[NASA-CASE-KSC-10126] c11 N71-24985

Video sync processor Patent
[NASA-CASE-KSC-10002] c10 N71-25865

Weld preparation machine Patent
[NASA-CASE-XKS-07953] c15 N71-26134

Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c07 N71-26292

Internal work light Patent
[NASA-CASE-XKS-05932] c09 N71-26787

Emergency escape system Patent
[NASA-CASE-XKS-07814] c15 N71-27067

Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c10 N71-27338

Autoignition test cell Patent
[NASA-CASE-KSC-10198] c11 N71-28629

Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c07 N71-33108

Ripple indicator
[NASA-CASE-KSC-10162] c09 N72-11225

High speed photo-optical time recording
[NASA-CASE-KSC-10294] c14 N72-18411

High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c08 N72-21197

Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c09 N72-21247

Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c15 N72-22486

Buffered analog converter
[NASA-CASE-KSC-10397] c08 N72-25206

Lamp modulator
[NASA-CASE-KSC-10565] c09 N72-25250

Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c15 N72-25453

Pressurized lighting system
[NASA-CASE-KSC-10644] c09 N72-27227

High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c08 N73-12176

Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c15 N73-12486

Electronic video editor
[NASA-CASE-KSC-10003] c10 N73-13235

Character indicating display device
[NASA-CASE-XKS-00348] c09 N73-14215

Collapsible high gain antenna
[NASA-CASE-KSC-10392] c07 N73-26117

Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c15 N73-26472

Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c14 N73-27378

Optical rotational sensor
[NASA-CASE-KSC-10752-1] c15 N73-27407

Television multiplexing system
[NASA-CASE-KSC-10654-1] c07 N73-30115

Lightning tracking system
[NASA-CASE-KSC-10729-1] c09 N73-32110

Rocket borne instrument to measure electric fields inside electrified clouds	[NASA-CASE-KSC-10730-1]	c14 N73-32318	Nose gear steering system for vehicle with main skids Patent	[NASA-CASE-XLA-01804]	c02 N70-34160
Electric field measuring and display system	[NASA-CASE-KSC-10731-1]	c14 N74-27862	Surface roughness detector Patent	[NASA-CASE-XLA-00203]	c14 N70-34161
Digital servo controller	[NASA-CASE-KSC-10769-1]	c09 N74-29556	Variable-span aircraft Patent	[NASA-CASE-XLA-00166]	c02 N70-34178
Signal conditioner test set	[NASA-CASE-KSC-10750-1]	c35 N75-12270	Dynamic precession damper for spin stabilized vehicles Patent	[NASA-CASE-XLA-01989]	c21 N70-34295
Variable resistance constant tension and lubrication device	[NASA-CASE-KSC-10723-1]	c37 N75-13265	Erectable modular space station Patent	[NASA-CASE-XLA-00678]	c31 N70-34296
Voltage monitoring system	[NASA-CASE-KSC-10736-1]	c33 N75-19521	Electric-arc heater Patent	[NASA-CASE-XLA-00330]	c33 N70-34540
Lightning current measuring systems	[NASA-CASE-KSC-10807-1]	c33 N75-26246	Ac power amplifier Patent Application	[NASA-CASE-LAR-10218-1]	c09 N70-34559
Dual digital video switcher	[NASA-CASE-KSC-10782-1]	c33 N75-30431	Method and apparatus for producing a plasma Patent	[NASA-CASE-XLA-00147]	c25 N70-34661
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.			Gas actuated bolt disconnect Patent	[NASA-CASE-XLA-00326]	c03 N70-34667
LANGLEY RESEARCH CENTER, LANGLEY STATION, VA.			Logarithmic converter Patent	[NASA-CASE-XLA-00471]	c08 N70-34778
Jet shoes	[NASA-CASE-XLA-08491]	c05 N69-21380	Manifold for shaping solid propellant rocket fuel into a motor casing Patent	[NASA-CASE-XLA-00304]	c27 N70-34783
Condenser - Separator	[NASA-CASE-XLA-08645]	c15 N69-21465	Impact simulator Patent	[NASA-CASE-XLA-00493]	c11 N70-34786
Connector - Electrical	[NASA-CASE-XLA-01288]	c09 N69-21470	Accelerometer with FM output Patent	[NASA-CASE-XLA-00492]	c14 N70-34799
A support technique for vertically oriented launch vehicles	[NASA-CASE-XLA-02704]	c11 N69-21540	Frangible tube energy dissipation Patent	[NASA-CASE-XLA-00754]	c15 N70-34850
Electromagnetic mirror drive system	[NASA-CASE-XLA-03724]	c14 N69-27461	Landing arrangement for aerial vehicle Patent	[NASA-CASE-XLA-00806]	c02 N70-34858
Evaporant holder	[NASA-CASE-XLA-03105]	c15 N69-27483	Method and apparatus for shock protection Patent	[NASA-CASE-XLA-00482]	c15 N70-36409
Compensating radiometer	[NASA-CASE-XLA-04556]	c14 N69-27484	Inflatable honeycomb Patent	[NASA-CASE-XLA-00204]	c32 N70-36536
Tubular coupling having frangible connecting means	[NASA-CASE-XLA-02854]	c15 N69-27490	Thermal control of space vehicles Patent	[NASA-CASE-XLA-01291]	c33 N70-36617
Fatigue-resistant shear pin	[NASA-CASE-XLA-09122]	c15 N69-27505	Foam generator Patent	[NASA-CASE-XLA-00838]	c03 N70-36778
Ablation sensor	[NASA-CASE-XLA-01781]	c14 N69-39975	Parachute glider Patent	[NASA-CASE-XLA-00898]	c02 N70-36804
Aeroelastic structures	[NASA-CASE-XLA-06095]	c01 N69-39981	Production of high purity silicon carbide Patent	[NASA-CASE-XLA-00158]	c26 N70-36805
Transient-compensated SCR inverter	[NASA-CASE-XLA-08507]	c09 N69-39984	Airplane take-off performance indicator Patent	[NASA-CASE-XLA-00100]	c14 N70-36807
Capacitor power pak Patent Application	[NASA-CASE-LAR-10367-1]	c03 N70-26817	Aerodynamic measuring device Patent	[NASA-CASE-XLA-00481]	c14 N70-36824
Disk pack cleaning table Patent Application	[NASA-CASE-LAR-10590-1]	c15 N70-26819	Aircraft wheel spray drag alleviator Patent	[NASA-CASE-XLA-01583]	c02 N70-36825
Folding apparatus Patent	[NASA-CASE-XLA-00137]	c15 N70-33180	Attitude orientation of spin-stabilized space vehicles Patent	[NASA-CASE-XLA-00281]	c21 N70-36943
Infrared scanner Patent	[NASA-CASE-XLA-00120]	c21 N70-33181	Continuously operating induction plasma accelerator Patent	[NASA-CASE-XLA-01354]	c25 N70-36946
Reentry vehicle leading edge Patent	[NASA-CASE-XLA-00165]	c31 N70-33242	Check valve assembly for a probe Patent	[NASA-CASE-XLA-00128]	c15 N70-37925
Motion picture camera for optical pyrometry Patent	[NASA-CASE-XLA-00062]	c14 N70-33254	Space capsule Patent	[NASA-CASE-XLA-00149]	c31 N70-37938
Variable sweep wing configuration Patent	[NASA-CASE-XLA-00230]	c02 N70-33255	Sandwich panel construction Patent	[NASA-CASE-XLA-00349]	c33 N70-37979
Variable sweep wing aircraft Patent	[NASA-CASE-XLA-00221]	c02 N70-33266	Reflector space satellite Patent	[NASA-CASE-XLA-00138]	c31 N70-37981
Plasma accelerator Patent	[NASA-CASE-XLA-00675]	c25 N70-33267	Variable-geometry winged reentry vehicle Patent	[NASA-CASE-XLA-00241]	c31 N70-37986
Survival couch Patent	[NASA-CASE-XLA-00118]	c05 N70-33285	Vehicle parachute and equipment jettison system Patent	[NASA-CASE-XLA-00195]	c02 N70-38009
Landing arrangement for aerial vehicles Patent	[NASA-CASE-XLA-00142]	c02 N70-33286	Landing arrangement for aerospace vehicle Patent	[NASA-CASE-XLA-00805]	c31 N70-38010
Wind tunnel airstream oscillating apparatus Patent	[NASA-CASE-XLA-00112]	c11 N70-33287	Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent	[NASA-CASE-XLA-00414]	c07 N70-38200
Hydrofoil Patent	[NASA-CASE-XLA-00229]	c12 N70-33305	Despin weight release Patent	[NASA-CASE-XLA-00679]	c15 N70-38601
High intensity heat and light unit Patent	[NASA-CASE-XLA-00141]	c09 N70-33312	Manned space station Patent	[NASA-CASE-XLA-00258]	c31 N70-38676
Particle detection apparatus Patent	[NASA-CASE-XLA-00135]	c14 N70-33322	Missile stage separation indicator and stage initiator Patent	[NASA-CASE-XLA-00791]	c03 N70-39930
Runway light Patent	[NASA-CASE-XLA-00119]	c11 N70-33329	Apparatus for producing high purity silicon carbide crystals Patent	[NASA-CASE-XLA-02057]	c26 N70-40015
Spherical solid-propellant rocket motor Patent	[NASA-CASE-XLA-00105]	c28 N70-33331	Miniature vibration isolator Patent	[NASA-CASE-XLA-01019]	c15 N70-40156
Jet aircraft configuration Patent	[NASA-CASE-XLA-00087]	c02 N70-33332			
Aerial capsule emergency separation device Patent	[NASA-CASE-XLA-00115]	c03 N70-33343			
Nozzle Patent	[NASA-CASE-XLA-00154]	c28 N70-33374			
Air frame drag balance Patent	[NASA-CASE-XLA-00113]	c14 N70-33386			
Flexible foam erectable space structures	[NASA-CASE-XLA-00686]	c31 N70-34135			

Aircraft instrument Patent		
[NASA-CASE-XLA-00487]	c14 N70-40157	
Radiation direction detector including means for compensating for photocell aging Patent		
[NASA-CASE-XLA-00183]	c14 N70-40239	
Passive communication satellite Patent		
[NASA-CASE-XLA-00210]	c30 N70-40309	
Electrostatic plasma modulator for space vehicle re-entry communication Patent		
[NASA-CASE-XLA-01400]	c07 N70-41331	
Micrometeoroid velocity measuring device Patent		
[NASA-CASE-XLA-00495]	c14 N70-41332	
Method of obtaining permanent record of surface flow phenomena Patent		
[NASA-CASE-XLA-01353]	c14 N70-41366	
Means for communicating through a layer of ionized gases Patent		
[NASA-CASE-XLA-01127]	c07 N70-41372	
Quick release separation mechanism Patent		
[NASA-CASE-XLA-01441]	c15 N70-41679	
Flexible wing deployment device Patent		
[NASA-CASE-XLA-01220]	c02 N70-41863	
Self-sealing, unbonded, rocket motor nozzle closure Patent		
[NASA-CASE-XLA-02651]	c28 N70-41967	
Fatigue testing device Patent		
[NASA-CASE-XLA-02131]	c32 N70-42003	
Techniques for insulating cryogenic fuel containers Patent		
[NASA-CASE-XLA-01967]	c31 N70-42015	
Double hinged flap Patent		
[NASA-CASE-XLA-01290]	c02 N70-42016	
Spacecraft separation system for spinning vehicles and/or payloads Patent		
[NASA-CASE-XLA-02132]	c31 N71-10582	
Method for molding compounds Patent		
[NASA-CASE-XLA-01091]	c15 N71-10672	
Automatic force measuring system Patent		
[NASA-CASE-XLA-02605]	c14 N71-10773	
Gas analyzer for bi-gaseous mixtures Patent		
[NASA-CASE-XLA-01131]	c14 N71-10774	
Multiple input radio receiver Patent		
[NASA-CASE-XLA-00901]	c07 N71-10775	
Rotating space station simulator Patent		
[NASA-CASE-XLA-02127]	c11 N71-10776	
Composite powerplant and shroud therefor Patent		
[NASA-CASE-XLA-01043]	c28 N71-10780	
All-directional fastener Patent		
[NASA-CASE-XLA-01807]	c15 N71-10799	
Hot air balloon deceleration and recovery system Patent		
[NASA-CASE-XLA-06824-2]	c02 N71-11037	
Control for flexible parawing Patent		
[NASA-CASE-XLA-06958]	c02 N71-11038	
Variable sweep aircraft Patent		
[NASA-CASE-XLA-03659]	c02 N71-11041	
Translating horizontal tail Patent		
[NASA-CASE-XLA-08801-1]	c02 N71-11043	
Space suit pressure stabilizer Patent		
[NASA-CASE-XLA-05332]	c05 N71-11194	
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[NASA-CASE-LAR-10007-1]	c05 N71-11195	
Recovery of potable water from human wastes in below-G conditions Patent		
[NASA-CASE-XLA-03213]	c05 N71-11207	
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4,5-tetraamino-benzene Patent		
[NASA-CASE-XLA-03104]	c06 N71-11235	
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[NASA-CASE-XLA-08802]	c06 N71-11238	
Adaptive compression of communication signals Patent		
[NASA-CASE-XLA-03076]	c07 N71-11266	
Reentry communication by material addition Patent		
[NASA-CASE-XLA-01552]	c07 N71-11284	
Cooperative Doppler radar system Patent		
[NASA-CASE-LAR-10403]	c21 N71-11766	
Supersonic aircraft Patent		
[NASA-CASE-XLA-04451]	c02 N71-12243	
Umbilical disconnect Patent		
[NASA-CASE-XLA-00711]	c03 N71-12258	
Remote controlled tubular disconnect Patent		
[NASA-CASE-XLA-01396]	c03 N71-12259	
Backpack carrier Patent		
[NASA-CASE-LAR-10056]	c05 N71-12351	
Optical communications system Patent		
[NASA-CASE-XLA-01090]	c07 N71-12389	
Analog to digital converter Patent		
[NASA-CASE-XLA-00670]	c08 N71-12501	
Integrated time shared instrumentation display Patent		
[NASA-CASE-XLA-01952]	c08 N71-12507	
SCR blocking pulse gate amplifier Patent		
[NASA-CASE-XLA-07497]	c09 N71-12514	
Minimum induced drag airfoil body Patent		
[NASA-CASE-XLA-00755]	c01 N71-13410	
Minimum induced drag airfoil body Patent		
[NASA-CASE-XLA-05828]	c01 N71-13411	
Mechanical stability augmentation system Patent		
[NASA-CASE-XLA-06339]	c02 N71-13422	
Automatic balancing device Patent		
[NASA-CASE-LAR-10774]	c10 N71-13545	
Quick release connector Patent		
[NASA-CASE-XLA-01141]	c15 N71-13789	
Spacecraft experiment pointing and attitude control system Patent		
[NASA-CASE-XLA-05464]	c21 N71-14132	
Pressurized cell micrometeoroid detector Patent		
[NASA-CASE-XLA-00936]	c14 N71-14996	
Crossed-field MHD plasma generator/accelerator Patent		
[NASA-CASE-XLA-03374]	c25 N71-15562	
Adjustable attitude guide device Patent		
[NASA-CASE-XLA-07911]	c15 N71-15571	
Control system for rocket vehicles Patent		
[NASA-CASE-XLA-01163]	c21 N71-15582	
Excessive temperature warning system Patent		
[NASA-CASE-XLA-01926]	c14 N71-15620	
Alleviation of divergence during rocket launch Patent		
[NASA-CASE-XLA-00256]	c31 N71-15663	
Space capsule Patent		
[NASA-CASE-XLA-01332]	c31 N71-15664	
Variable geometry manned orbital vehicle Patent		
[NASA-CASE-XLA-03691]	c31 N71-15674	
Payload/burned-out motor case separation system Patent		
[NASA-CASE-XLA-05369]	c31 N71-15687	
Velocity package Patent		
[NASA-CASE-XLA-01339]	c31 N71-15692	
File card marker Patent		
[NASA-CASE-XLA-02705]	c08 N71-15908	
Hypersonic test facility Patent		
[NASA-CASE-XLA-00378]	c11 N71-15925	
Test unit free-flight suspension system Patent		
[NASA-CASE-XLA-00939]	c11 N71-15926	
Reduced gravity simulator Patent		
[NASA-CASE-XLA-01787]	c11 N71-16028	
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent		
[NASA-CASE-XLA-00284]	c15 N71-16075	
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent		
[NASA-CASE-XLA-00302]	c15 N71-16077	
Separator Patent		
[NASA-CASE-XLA-00415]	c15 N71-16079	
Omnidirectional multiple impact landing system Patent		
[NASA-CASE-XLA-09881]	c31 N71-16085	
Flexible ring slosh damping baffle Patent		
[NASA-CASE-LAR-10317-1]	c32 N71-16103	
Buoyant anti-slosh system Patent		
[NASA-CASE-XLA-04605]	c32 N71-16106	
Detector panels-micrometeoroid impact Patent		
[NASA-CASE-XLA-05906]	c31 N71-16221	
Wind velocity probing device and method Patent		
[NASA-CASE-XLA-02081]	c20 N71-16281	
Vibrating structure displacement measuring instrument Patent		
[NASA-CASE-XLA-03135]	c32 N71-16428	
Viscous-pendulum-damper Patent		
[NASA-CASE-XLA-02079]	c12 N71-16894	
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[NASA-CASE-LAR-10323-1]	c12 N71-17573	
Logic AND gate for fluid circuits Patent		
[NASA-CASE-XLA-07391]	c12 N71-17579	
Contour surveying system Patent		
[NASA-CASE-XLA-08646]	c14 N71-17586	
Cable arrangement for rigid tethering Patent		
[NASA-CASE-XLA-02332]	c32 N71-17609	
Thermal pump-compressor for space use Patent		
[NASA-CASE-XLA-00377]	c33 N71-17610	
Viscous pendulum damper Patent		
[NASA-CASE-LAR-10274-1]	c14 N71-17626	
Self supporting space vehicle Patent		
[NASA-CASE-XLA-00117]	c31 N71-17680	

Technique for control of free-flight rocket vehicles Patent		
[NASA-CASE-XLA-00937]	c31	N71-17691
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[NASA-CASE-XLA-05100]	c15	N71-17696
Heat protection apparatus Patent		
[NASA-CASE-XLA-00892]	c33	N71-17897
Thermopile vacuum gage tube simulator Patent		
[NASA-CASE-XLA-02758]	c14	N71-18481
Ionization vacuum gauge with all but the end of the ion collector shielded Patent		
[NASA-CASE-XLA-07424]	c14	N71-18482
Safe-arm initiator Patent		
[NASA-CASE-LAR-10372]	c09	N71-18599
Controlled glass bead peening Patent		
[NASA-CASE-XLA-07390]	c15	N71-18616
Exclusive-or digital logic module Patent		
[NASA-CASE-XLA-07732]	c08	N71-18751
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[NASA-CASE-XLA-05749]	c15	N71-19569
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[NASA-CASE-XLA-02898]	c05	N71-20268
Dosimeter for high levels of absorbed radiation Patent		
[NASA-CASE-XLA-03645]	c14	N71-20430
Flow field simulation Patent		
[NASA-CASE-LAR-11138]	c12	N71-20436
Variable pulse width multiplier Patent		
[NASA-CASE-XLA-02850]	c09	N71-20447
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent		
[NASA-CASE-XLA-06232]	c25	N71-20563
Null device for hand controller Patent		
[NASA-CASE-XLA-01808]	c15	N71-20740
Event recorder Patent		
[NASA-CASE-XLA-01832]	c14	N71-21006
Inflatable support structure Patent		
[NASA-CASE-XLA-01731]	c32	N71-21045
Fast opening diaphragm Patent		
[NASA-CASE-XLA-03660]	c15	N71-21060
Ellipsograph for pantograph Patent		
[NASA-CASE-XLA-03102]	c14	N71-21079
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[NASA-CASE-XLA-01401]	c15	N71-21179
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent		
[NASA-CASE-XLA-01262]	c15	N71-21404
Hypersonic test facility Patent		
[NASA-CASE-XLA-05378]	c11	N71-21475
Multilegged support system Patent		
[NASA-CASE-XLA-01326]	c11	N71-21481
Macelle afterbody for jet engines Patent		
[NASA-CASE-XLA-10450]	c28	N71-21493
Canister closing device Patent		
[NASA-CASE-XLA-01446]	c15	N71-21528
Ablation sensor Patent		
[NASA-CASE-XLA-01794]	c33	N71-21586
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent		
[NASA-CASE-XLA-03103]	c25	N71-21693
Attitude control and damping system for spacecraft Patent		
[NASA-CASE-XLA-02551]	c21	N71-21708
Method of making inflatable honeycomb Patent		
[NASA-CASE-XLA-03492]	c15	N71-22713
Lunar penetrometer Patent		
[NASA-CASE-XLA-00934]	c14	N71-22765
Thermal control wall panel Patent		
[NASA-CASE-XLA-01243]	c33	N71-22792
Attitude sensor for space vehicles Patent		
[NASA-CASE-XLA-00793]	c21	N71-22880
Omnidirectional microwave spacecraft antenna Patent		
[NASA-CASE-XLA-03114]	c09	N71-22888
Thermal control panel Patent		
[NASA-CASE-XLA-07728]	c33	N71-22890
Spacecraft airlock Patent		
[NASA-CASE-XLA-02050]	c31	N71-22968
Station keeping of a gravity gradient stabilized satellite Patent		
[NASA-CASE-XLA-03132]	c31	N71-22969
Semi-linear ball bearing Patent		
[NASA-CASE-XLA-02809]	c15	N71-22982
Heat sensing instrument Patent		
[NASA-CASE-XLA-01551]	c14	N71-22989
Ablation sensor Patent		
[NASA-CASE-XLA-01791]	c14	N71-22991
Self-calibrating displacement transducer Patent		
[NASA-CASE-XLA-00781]	c09	N71-22999
Lateral displacement system for separated rocket stages Patent		
[NASA-CASE-XLA-04804]	c31	N71-23008
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[NASA-CASE-XLA-01995]	c18	N71-23047
Method of making an inflatable panel Patent		
[NASA-CASE-XLA-03497]	c15	N71-23052
Variable duration pulse integrator Patent		
[NASA-CASE-XLA-01219]	c10	N71-23084
Impact energy absorber Patent		
[NASA-CASE-XLA-01530]	c14	N71-23092
Micrometeoroid penetration measuring device Patent		
[NASA-CASE-XLA-00941]	c14	N71-23240
Combined optical attitude and altitude indicating instrument Patent		
[NASA-CASE-XLA-01907]	c14	N71-23268
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent		
[NASA-CASE-XLA-01584]	c14	N71-23269
Variable width pulse integrator Patent		
[NASA-CASE-XLA-03356]	c10	N71-23315
Leading edge curvature based on convective heating Patent		
[NASA-CASE-XLA-01486]	c01	N71-23497
Measurement of time differences between luminous events Patent		
[NASA-CASE-XLA-01987]	c23	N71-23976
Method for measuring the characteristics of a gas Patent		
[NASA-CASE-XLA-03375]	c16	N71-24074
Laser grating interferometer Patent		
[NASA-CASE-XLA-04295]	c16	N71-24170
Automatic fatigue test temperature programmer Patent		
[NASA-CASE-XLA-02059]	c33	N71-24276
Ring wing tension vehicle Patent		
[NASA-CASE-XLA-04901]	c31	N71-24315
Process for applying black coating to metals Patent		
[NASA-CASE-XLA-06199]	c15	N71-24875
Velocity limiting safety system Patent		
[NASA-CASE-XLA-07473]	c15	N71-24895
Strain coupled servo control system Patent		
[NASA-CASE-XLA-08530]	c32	N71-25360
Method of temperature compensating semiconductor strain gages Patent		
[NASA-CASE-XLA-04555-1]	c14	N71-25892
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent		
[NASA-CASE-XLA-02810]	c14	N71-25901
Method of plating copper on aluminum Patent		
[NASA-CASE-XLA-08966-1]	c17	N71-25903
Laser calibrator Patent		
[NASA-CASE-XLA-03410]	c16	N71-25914
Thermal protection ablation spray system Patent		
[NASA-CASE-XLA-04251]	c18	N71-26100
Direct lift control system Patent		
[NASA-CASE-LAR-10249-1]	c02	N71-26110
Light shield and infrared reflector for fatigue testing Patent		
[NASA-CASE-XLA-01782]	c14	N71-26136
Dual resonant cavity absorption cell Patent		
[NASA-CASE-LAR-10305]	c14	N71-26137
Resilience testing device Patent		
[NASA-CASE-XLA-08254]	c14	N71-26161
Precipitation detector Patent		
[NASA-CASE-XLA-02619]	c10	N71-26334
Instrument for measuring the dynamic behavior of liquids Patent		
[NASA-CASE-XLA-05541]	c12	N71-26387
Arbitrarily shaped model survey system Patent		
[NASA-CASE-LAR-10098]	c32	N71-26681
Dielectric molding apparatus Patent		
[NASA-CASE-LAR-10121-1]	c15	N71-26721
Method of making a solid propellant rocket motor Patent		
[NASA-CASE-XLA-04126]	c28	N71-26779
Dynamic vibration absorber Patent		
[NASA-CASE-LAR-10083-1]	c15	N71-27006
Rate augmented digital to analog converter Patent		
[NASA-CASE-XLA-07828]	c08	N71-27057
High speed flight vehicle control Patent		
[NASA-CASE-XLA-08967]	c02	N71-27088
Suspended mass impact damper Patent		
[NASA-CASE-LAR-10193-1]	c15	N71-27146

Active vibration isolator for flexible bodies		
Patent		
[NASA-CASE-LAR-10106-1]	c15	N71-27169
Soldering device Patent		
[NASA-CASE-XLA-08911]	c15	N71-27214
Fringe counter for interferometers Patent		
[NASA-CASE-LAR-10204]	c14	N71-27215
Wideband VCO with high phase stability Patent		
[NASA-CASE-XLA-03893]	c10	N71-27271
Plural position switch status and operativeness checker Patent		
[NASA-CASE-XLA-06799]	c10	N71-27272
Angular displacement indicating gas bearing support system Patent		
[NASA-CASE-XLA-09346]	c15	N71-28740
Solid state thermal control polymer coating Patent		
[NASA-CASE-XLA-01745]	c33	N71-28903
Specialized halogen generator for purification of water Patent		
[NASA-CASE-XLA-08913]	c14	N71-28933
Optical communications system Patent		
[NASA-CASE-XLA-01090]	c16	N71-28963
Antenna design for surface wave suppression Patent		
[NASA-CASE-XLA-10772]	c07	N71-28980
Analog to digital converter tester Patent		
[NASA-CASE-XLA-06713]	c14	N71-28991
Method of making pressurized panel Patent		
[NASA-CASE-XLA-08916]	c15	N71-29018
Maksutov spectrograph Patent		
[NASA-CASE-XLA-10402]	c14	N71-29041
Two component bearing Patent		
[NASA-CASE-XLA-00013]	c15	N71-29136
Digital pulse width selection circuit Patent		
[NASA-CASE-XLA-07788]	c09	N71-29139
Magnetically controlled plasma accelerator Patent		
[NASA-CASE-XLA-00327]	c25	N71-29184
Boring bar drive mechanism Patent		
[NASA-CASE-XLA-03661]	c15	N71-33518
Wind tunnel model damper Patent		
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LYNDON B. JOHNSON SPACE CENTER, HOUSTON, TEX.
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[NASA-CASE-MFS-20410]	c15 N71-19214	Patent	
Extensometer	Patent	[NASA-CASE-XMF-02966]	c10 N71-24863
[NASA-CASE-XMF-04680]	c15 N71-19489	Method and apparatus for precision sizing and	
Mechanical simulator of low gravity conditions		joining of large diameter tubes	Patent
Patent		[NASA-CASE-XMF-05114-3]	c15 N71-24865
[NASA-CASE-MFS-10555]	c11 N71-19494	Duct coupling for single-handed operation	Patent
Weld control system using thermocouple wire	Patent	[NASA-CASE-MFS-20395]	c15 N71-24903
[NASA-CASE-MFS-06074]	c15 N71-20393	Brushless direct current tachometer	Patent
Evaporant source for vapor deposition	Patent	[NASA-CASE-MFS-20385]	c09 N71-24904
[NASA-CASE-XMF-06065]	c15 N71-20395	Self-lubricating gears and other mechanical	
Satellite despina device	Patent	parts	Patent
[NASA-CASE-XMF-08523]	c31 N71-20396	[NASA-CASE-MFS-14971]	c15 N71-24984
Method of coating circuit paths on printed		Pulse width inverter	Patent
circuit boards with solder	Patent	[NASA-CASE-MFS-10068]	c10 N71-25139
[NASA-CASE-XMF-01599]	c09 N71-20705	Isothermal cover with thermal reservoirs	Patent
Elastomeric silazane polymers and process for		[NASA-CASE-MFS-20355]	c33 N71-25353
preparing the same	Patent	Storage container for electronic devices	Patent
[NASA-CASE-XMF-04133]	c06 N71-20717	[NASA-CASE-MFS-20075]	c09 N71-26133
Method of producing alternating ether siloxane		Method and apparatus for precision sizing and	
copolymers	Patent	joining of large diameter tubes	Patent
[NASA-CASE-XMF-02584]	c06 N71-20905	[NASA-CASE-XMF-05114-2]	c15 N71-26148
Honeycomb panel and method of making same	Patent	Filter system for control of outgas	
[NASA-CASE-XMF-01402]	c18 N71-21651	contamination in vacuum	Patent
Portable milling tool	Patent	[NASA-CASE-MFS-14711]	c15 N71-26185
[NASA-CASE-XMF-03511]	c15 N71-22799	Image magnification adapter for cameras	Patent
Energy absorbing device	Patent	[NASA-CASE-XMF-03844-1]	c14 N71-26474
[NASA-CASE-XMF-10040]	c15 N71-22877	Thickness measuring and injection device	Patent
Continuous detonation reaction engine	Patent	[NASA-CASE-MFS-20261]	c14 N71-27005
[NASA-CASE-XMF-06926]	c28 N71-22983	Personal propulsion unit	Patent
Adaptive tracking notch filter system	Patent	[NASA-CASE-MFS-20130]	c28 N71-27585
[NASA-CASE-XMF-01892]	c10 N71-22986	Power system with heat pipe liquid coolant lines	
Metecrological balloon	Patent	Patent	
[NASA-CASE-XMF-04163]	c02 N71-23007	[NASA-CASE-MFS-14114]	c33 N71-27862
Continuous turning slip ring assembly	Patent	Method of making shielded flat cable	Patent
[NASA-CASE-XMF-01049]	c15 N71-23049	[NASA-CASE-MFS-13687]	c09 N71-28691
Automatic welding speed controller	Patent	A dc motor speed control system	Patent
[NASA-CASE-XMF-01730]	c15 N71-23050	[NASA-CASE-MFS-14610]	c09 N71-28886
Positive dc to positive dc converter	Patent	Cryogenic thermal insulation	Patent
[NASA-CASE-XMF-14301]	c09 N71-23188	[NASA-CASE-XMF-05046]	c33 N71-28892
Zero gravity apparatus	Patent	Method of coating through-holes	Patent
[NASA-CASE-XMF-06515]	c14 N71-23227	[NASA-CASE-XMF-05999]	c15 N71-29032
Positive dc to negative dc converter	Patent	Response analyzers for sensors	Patent
[NASA-CASE-XMF-08217]	c03 N71-23239	[NASA-CASE-MFS-11204]	c14 N71-29134
Evacuation port seal	Patent	Current regulating voltage divider	
[NASA-CASE-XMF-03290]	c15 N71-23256	[NASA-CASE-MFS-20935]	c09 N71-34212
Azimuth laying system	Patent	Nuclear mass flowmeter	
[NASA-CASE-XMF-01669]	c21 N71-23289	[NASA-CASE-MFS-20485]	c14 N72-11365
Electron beam instrument for measuring electric		Fine adjustment mount	
fields	Patent	[NASA-CASE-MFS-20249]	c15 N72-11386
[NASA-CASE-XMF-10289]	c14 N71-23699	Method of making foamed materials in zero gravity	
Anemometer with tracking mechanism	Patent	[NASA-CASE-XMF-09902]	c15 N72-11387
[NASA-CASE-XMF-05224]	c14 N71-23726	Air bearing assembly for curved surfaces	
Apparatus for testing a pressure responsive		[NASA-CASE-MFS-20423]	c15 N72-11388
instrument	Patent	Stud-bonding gun	
[NASA-CASE-XMF-04134]	c14 N71-23755	[NASA-CASE-MFS-20299]	c15 N72-11392
Electric welding torch	Patent	Apparatus for obtaining isotropic irradiation of	
[NASA-CASE-XMF-02330]	c15 N71-23798	a specimen	
Swivel support for gas bearings	Patent	[NASA-CASE-MFS-20095]	c24 N72-11595
[NASA-CASE-XMF-07808]	c15 N71-23812	Wind tunnel test section	
Welding skate with computerized control	Patent	[NASA-CASE-MFS-20509]	c11 N72-17183
[NASA-CASE-XMF-07069]	c15 N71-23815	Multiple image storing system for high speed	
Docking structure for spacecraft	Patent	projectile holography	
[NASA-CASE-XMF-05941]	c31 N71-23912	[NASA-CASE-MFS-20596]	c14 N72-17324
High pressure helium purifier	Patent	Method of manufacturing semiconductor devices	
[NASA-CASE-XMF-06888]	c15 N71-24044	using refractory dielectrics	
Horizontal cryostat for fatigue testing	Patent	[NASA-CASE-XER-08476-1]	c26 N72-17820
[NASA-CASE-XMF-10968]	c14 N71-24234		

Underwater space suit pressure control regulator [NASA-CASE-MFS-20332]	c05 N72-20097	Monitoring deposition of films [NASA-CASE-MFS-20675]	c26 N73-26751
Apparatus for making diamonds [NASA-CASE-MFS-20698]	c15 N72-20446	Docking structure for spacecraft [NASA-CASE-MFS-20863]	c31 N73-26876
An airlock [NASA-CASE-MFS-20922]	c31 N72-20840	Wide temperature range electronic device with lead attachment [NASA-CASE-ERC-10224-2]	c09 N73-27150
Photocetching of metal-oxide layers [NASA-CASE-ERC-10108]	c06 N72-21094	Restraint system for ergometer [NASA-CASE-MFS-21046-1]	c14 N73-27377
Liquid aerosol dispenser [NASA-CASE-MFS-20829]	c12 N72-21310	Apparatus and method for skin packaging articles [NASA-CASE-MFS-20855]	c15 N73-27405
Optical probing of supersonic flows with statistical correlation [NASA-CASE-MFS-20642]	c14 N72-21407	Ergometer [NASA-CASE-MFS-21109-1]	c05 N73-27941
Mechanically actuated triggered hand [NASA-CASE-MFS-20413]	c15 N72-21463	Tilting table for ergometer and for other biomedical devices [NASA-CASE-MFS-21010-1]	c05 N73-30078
Hermetically sealed elbow actuator [NASA-CASE-MFS-14710]	c09 N72-22195	Measurement system [NASA-CASE-MFS-20658-1]	c14 N73-30386
Shielded flat cable [NASA-CASE-MFS-13687-2]	c09 N72-22198	Collimator of multiple plates with axially aligned identical random arrays of apertures [NASA-CASE-MFS-20546-2]	c14 N73-30389
Shock wave convergence apparatus [NASA-CASE-MFS-20890]	c14 N72-22439	Holographic thin film analyzer [NASA-CASE-MFS-20823-1]	c16 N73-30476
Bonding of reinforced Teflon to metals [NASA-CASE-MFS-20482]	c15 N72-22492	Semiconductor surface protection material [NASA-CASE-ERC-10339-1]	c18 N73-30532
Inorganic thermal control coatings [NASA-CASE-MFS-20011]	c18 N72-22566	Polymerizable disilanol having in-chain perfluoroalkyl groups [NASA-CASE-MFS-20979-2]	c06 N73-32030
High temperature furnace for melting materials in space [NASA-CASE-MFS-20710]	c11 N72-23215	Redundant speed control for brushless Hall effect motor [NASA-CASE-MFS-20207-1]	c09 N73-32107
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Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups [NASA-CASE-MFS-20979]	c06 N72-25151	Synthesis of superconducting compounds by explosive compaction of powders [NASA-CASE-MFS-20861-1]	c18 N73-32437
Emergency lunar communications system [NASA-CASE-MFS-21042]	c07 N72-25171	Remote manipulator system [NASA-CASE-MFS-22022-1]	c05 N74-10099
Lead attachment to high temperature devices [NASA-CASE-ERC-10224]	c09 N72-25261	Ultrasonic scanner for radial and flat panels [NASA-CASE-MFS-20335-1]	c14 N74-10415
Device for measuring bearing preload [NASA-CASE-MFS-20434]	c11 N72-25288	Digital computing cardiographometer [NASA-CASE-MFS-20284-1]	c05 N74-12778
Multiple in-line docking capability for rotating space stations [NASA-CASE-MFS-20855-1]	c31 N72-25853	Integrated circuit package with lead structure and method of preparing the same [NASA-CASE-MFS-21374-1]	c10 N74-12951
Altitude simulation chamber for rocket engine testing [NASA-CASE-MFS-20620]	c11 N72-27262	Vee-notching device [NASA-CASE-MFS-20730-1]	c14 N74-13131
Fixture for supporting articles during vibration tests [NASA-CASE-MFS-20523]	c14 N72-27412	Ultrasonic scanning system for in-place inspection of brazed tube joints [NASA-CASE-MFS-20767-1]	c15 N74-15130
Electrical connector [NASA-CASE-MFS-20757]	c09 N72-28225	Method and apparatus for checking the stability of a setup for making reflection type holograms [NASA-CASE-MFS-21455-1]	c16 N74-15146
Remote control manipulator for zero gravity environment [NASA-CASE-MFS-14405]	c15 N72-28495	Method and apparatus for nondestructive testing [NASA-CASE-MFS-21233-1]	c23 N74-15395
Thermal compensating structural member [NASA-CASE-MFS-20433]	c15 N72-28496	Real time moving scene holographic camera system [NASA-CASE-MFS-21087-1]	c14 N74-17153
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Adjustable force probe [NASA-CASE-MFS-20760]	c14 N72-33377	Reinforced polyquinoxaline gasket and method of preparing the same [NASA-CASE-MFS-21364-1]	c15 N74-18126
Polyimide resin-fiberglass cloth laminates for printed circuit boards [NASA-CASE-MFS-20408]	c18 N73-12604	Manual actuator [NASA-CASE-MFS-21481-1]	c15 N74-18127
Differential pressure control [NASA-CASE-MFS-14216]	c14 N73-13418	Testing device using X-ray lasers [NASA-CASE-MFS-22409-1]	c16 N74-18153
Redundant hydraulic control system for actuators [NASA-CASE-MFS-20944]	c15 N73-13466	Cryogenic gyroscope housing [NASA-CASE-MFS-21136-1]	c23 N74-18323
Device and method for determining X ray reflection efficiency of optical surfaces [NASA-CASE-MFS-20243]	c23 N73-13662	Thermoelectric power system [NASA-CASE-MFS-22002-1]	c03 N74-18726
Process for making diamonds [NASA-CASE-MFS-20698-2]	c15 N73-19457	Two stage light gas plasma projectile accelerator [NASA-CASE-MFS-22287-1]	c11 N74-18891
Test stand system for vacuum chambers [NASA-CASE-MFS-21362]	c11 N73-20267	A panel for selectively absorbing solar thermal energy and the method for manufacturing the panel [NASA-CASE-MFS-22562-1]	c03 N74-19700
Material fatigue testing system [NASA-CASE-MFS-20673]	c14 N73-20476	Automatic frequency control for FM transmitter [NASA-CASE-MFS-21540-1]	c07 N74-19790
Electronic optical transfer function analyzer [NASA-CASE-MFS-21672-1]	c23 N73-22630	Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver [NASA-CASE-MFS-21470-1]	c10 N74-19870
Ratemeter [NASA-CASE-MFS-20418]	c14 N73-24473		
Underwater space suit pressure control regulator [NASA-CASE-MFS-20332-2]	c05 N73-25125		
Maxometers (peak wind speed anemometers) [NASA-CASE-MFS-20916]	c14 N73-25460		

Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c05 N74-20725

Metatolic analyzer
[NASA-CASE-MFS-21415-1] c05 N74-20728

Automatic quadrature control and measuring system
[NASA-CASE-MFS-21660-1] c14 N74-21017

Thiophenyl ether disiloxanes and trisiloxanes
useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c15 N74-21058

Airlock
[NASA-CASE-MFS-20922-1] c15 N74-22136

Low distortion automatic phase control circuit
[NASA-CASE-MFS-21671-1] c10 N74-22885

Two speed drive system
[NASA-CASE-MFS-20645-1] c15 N74-23070

Insert facing tool
[NASA-CASE-MFS-21485-1] c15 N74-25968

LC-oscillator with automatic stabilized
amplitude via bias current control
[NASA-CASE-MFS-21698-1] c09 N74-26732

Device for monitoring a change in mass in
varying gravimetric environments
[NASA-CASE-MFS-21556-1] c14 N74-26945

Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c14 N74-26946

Electrophoretic sample insertion
[NASA-CASE-MFS-21395-1] c14 N74-26948

Sprag solenoid brake
[NASA-CASE-MFS-21846-1] c15 N74-26976

Device for configuring multiple leads
[NASA-CASE-MFS-22133-1] c15 N74-26977

Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c15 N74-26988

Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c15 N74-26989

Thrust-isolating mounting
[NASA-CASE-MFS-21680-1] c32 N74-27397

Battery testing device
[NASA-CASE-MFS-20761-1] c03 N74-27519

Apparatus for establishing flow of a fluid mass
having a known velocity
[NASA-CASE-MFS-21424-1] c12 N74-27730

Apparatus for conducting flow electrophoresis in
the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c12 N74-27744

Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c14 N74-27861

Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c14 N74-27864

Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c14 N74-27865

Three mirror glancing incidence system for X-ray
telescope
[NASA-CASE-MFS-21372-1] c14 N74-27866

Flame detector operable in presence of proton
radiation
[NASA-CASE-MFS-21577-1] c03 N74-29410

Polyimides of ether-linked aryl tetracarboxylic
dianhydrides
[NASA-CASE-MFS-22355] c06 N74-29480

An improved system for imposing directional
stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c31 N74-30311

A holographic motion picture camera
[NASA-CASE-MFS-22517-1] c14 N74-33943

Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c09 N74-34638

Aircraft mounted crash activated transmitter
device
[NASA-CASE-MFS-16609-3] c09 N74-34647

Method and apparatus for detecting flaws in
elongated bodies
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Rapid activation and checkout device for batteries
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An externally supported internally stabilized
flexible duct joint
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An attitude control system
[NASA-CASE-MFS-22787-1] c21 N74-35096

Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c25 N74-35145

Apparatus for measuring the ferrite content of
austenitic stainless steel weld material
[NASA-CASE-MFS-22907-1] c26 N75-10210

An improved heat exchanger
[NASA-CASE-MFS-22991-1] c34 N75-10366

Translatory shock absorbers for attitude sensors
[NASA-CASE-MFS-22905-1] c35 N75-10407

An improved portable peening gun
[NASA-CASE-MFS-23047-1] c37 N75-10459

Solar energy absorber
[NASA-CASE-MFS-22743-1] c44 N75-10585

Solar energy trap
[NASA-CASE-MFS-22744-1] c44 N75-10586

System for depositing thin films
[NASA-CASE-MFS-20775-1] c31 N75-12161

Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c35 N75-12271

Strain gauge ambiguity sensor for segmented
mirror active optical system
[NASA-CASE-MFS-20506-1] c35 N75-12273

A self-lubricating bearing
[NASA-CASE-MFS-23009-1] c37 N75-12328

Orthotic arm joint
[NASA-CASE-MFS-21611-1] c54 N75-12616

Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c09 N75-12968

Phase-locked servo system
[NASA-CASE-MFS-22073-1] c33 N75-13139

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[NASA-CASE-MFS-22631-1] c35 N75-13226

Self-energized plasma compressor
[NASA-CASE-MFS-22145-1] c75 N75-13625

Filtering device
[NASA-CASE-MFS-22729-1] c32 N75-14011

A remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c37 N75-14131

A deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c18 N75-14818

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c36 N75-15028

A method and a system for extinguishing a fire
within a sealed battery
[NASA-CASE-MFS-22952-1] c37 N75-15055

Variable frequency inverter for ac induction
motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c33 N75-15874

An improved heat transfer device
[NASA-CASE-MFS-22938-1] c34 N75-15902

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[NASA-CASE-MFS-21761-1] c35 N75-15931

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[NASA-CASE-MFS-21045-1] c35 N75-15932

Lead-oxygen dc power supply system
[NASA-CASE-MFS-23059-1] c44 N75-16078

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[NASA-CASE-MFS-22734-1] c18 N75-19329

Method of growing composites of the type
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Dual mode solid state power switch
[NASA-CASE-MFS-22880-1] c33 N75-19536

Meter for use in detecting tension in straps
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[NASA-CASE-MFS-22189-1] c35 N75-19615

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[NASA-CASE-MFS-20932-1] c35 N75-19616

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[NASA-CASE-MFS-19193-1] c37 N75-19686

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A device for installing rocket engines
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[NASA-CASE-MFS-21488-1] c14 N75-24794

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[NASA-CASE-MFS-21704-1] c35 N75-25124

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Simulator for practicing the mating of an
observer-controlled object with a target
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Apparatus for calibrating an image dissector tube
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Solid state current transformer
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transistors attached to substrates
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[NASA-CASE-MFS-22758-1] c70 N75-26789

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Brazing alloy composition
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Refractory porcelain enamel passive control
coating for high temperature alloys
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Real time, large volume, moving scene
holographic camera system
[NASA-CASE-MFS-22537-1] c35 N75-27328

Method and apparatus for vibration analysis
utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c35 N75-27329

Mechanical thermal motor
[NASA-CASE-MFS-22062-1] c44 N75-27561

Method of preparing graphite reinforced aluminum
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[NASA-CASE-MFS-21077-1] c24 N75-28135

Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c18 N75-29160

Carbon monoxide monitor
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[NASA-CASE-MFS-23167-1] c44 N75-29547

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Perfluoro alkylene dioxy-bis-(4-phthalic
anhydrides and
oxy-bis-(perfluoroalkyleneoxyphthalic
anhydrides
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Integrable power gyrator
[NASA-CASE-MFS-22342-1] c33 N75-30428

Isolated output system for a class D
switching-mode amplifier
[NASA-CASE-MFS-21616-1] c33 N75-30429

Method of and means for testing a tape
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[NASA-CASE-MFS-22671-2] c35 N75-31418

Apparatus for reducing aerodynamic noise in a
wind tunnel
[NASA-CASE-MFS-23099-1] c09 N75-32134

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Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c54 N75-32767

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System for enhancing tool-exchange capabilities
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[NASA-CASE-MFS-22283-1] c37 N75-33395

An improved load handling device
[NASA-CASE-MFS-23233-1] c54 N75-33725

A process for forming a crystalline film
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Phase control circuits using frequency
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Method of forming difunctional polyisobutylene
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Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c14 N73-32317

Expandable space frames
[NASA-CASE-ERC-10365-1] c31 N73-32749

Use of thin film light detector
[NASA-CASE-NPO-11432-2] c14 N74-15090

Temperature compensated digital inertial sensor
[NASA-CASE-NPO-13044-1] c14 N74-15094

Compact hydrogenator
[NASA-CASE-NPO-11682-1] c15 N74-15127

Short range laser obstacle detector
[NASA-CASE-NPO-11856-1] c16 N74-15145

Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c08 N74-17911

System for stabilizing cable phase delay
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[NASA-CASE-NPO-13138-1] c09 N74-17927

Banded transformer cores
[NASA-CASE-NPO-11966-1] c09 N74-17928

Inverter ratio failure detector
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Heat transfer device
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Method of forming a wick for a heat pipe
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Storage battery comprising negative plates of a
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Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c15 N69-24266

Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c09 N69-24318

Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c07 N69-24323

Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c09 N71-12513

GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c26 N71-18064

Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c14 N71-23039

Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c09 N71-23189

Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c10 N71-28739

RADIO CORP. OF AMERICA, PRINCETON, N.J.

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c03 N69-21539
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c03 N71-11049
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c09 N71-20658
Simple method of making photovoltaic junctions
Patent
[NASA-CASE-XNP-01960] c09 N71-23027
Method of electrolytically binding a layer of
semiconductors together Patent
[NASA-CASE-XNP-01959] c26 N71-23043
Method and apparatus for distillation of liquids
Patent
[NASA-CASE-XNP-08124] c15 N71-27184
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c14 N71-27407
Method of changing the conductivity of vapor
deposited gallium arsenide by the introduction
of water into the vapor deposition atmosphere
Patent
[NASA-CASE-XNP-01961] c26 N71-29156
Radial heat flux transformer
[NASA-CASE-NPO-10828] c33 N72-17948
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c10 N72-22235
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c06 N73-13129
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c15 N73-14469
Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c28 N73-32606
Rotary solenoid shutter drive assembly and
rotary inertia damper and stop plate assembly
[NASA-CASE-GSC-11560-1] c09 N74-20861
Pine frequency measurement by coincidence
detection
[NASA-CASE-MSC-14649-1] c32 N75-13124
Preload torque limiting shaft coupling
[NASA-CASE-LAR-11398-1] c37 N75-15994
RAND CORP., SANTA MONICA, CALIF.
Satellite communication system Patent
[NASA-CASE-XNP-02389] c07 N71-28900
RAYMOND ENGINEERING LAB., INC., MIDDLETOWN, CONN.
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c10 N71-20448
RAYTHEON CO., SUDBURY, MASS.
Laser Doppler system for measuring three
dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c21 N71-19212
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c36 N75-15028
RCA SERVICE CO., INC., CAMDEN, N.J.
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c14 N71-26788
RENSSELAER POLYTECHNIC INST., TROY, N.Y.
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c14 N72-17328
RESEARCH TRIANGLE INST., DURHAM, N.C.
Semiconductor p-n junction stress and strain
sensor
[NASA-CASE-XLA-04980] c09 N69-27422
RESEARCH TRIANGLE INST., RESEARCH TRIANGLE PARK, N.C.
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c14 N74-22112
ROCHESTER UNIV., N.Y.
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c14 N70-40003
ROCKETDYNE, CANOGA PARK, CALIF.
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c08 N71-12500
Load cell protection device Patent
[NASA-CASE-XMS-06782] c32 N71-15974
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c33 N71-16356
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c12 N71-17631
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c15 N71-19213
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c14 N71-20442
Technique of elbow bending small jacketed
transfer lines Patent
[NASA-CASE-XNP-10475] c15 N71-24679
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c15 N71-27372
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c28 N71-28928

Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c16 N71-33410
Hydrazinium nitroformate propellant stabilized
with nitroguanidine
[NASA-CASE-NPO-12000] c27 N72-25699
Hydrazinium nitroformate propellant with
saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c27 N73-16764
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c06 N73-32029
An externally supported internally stabilized
flexible duct joint
[NASA-CASE-MFS-19194-1] c15 N74-34882
Internally supported flexible duct joint
[NASA-CASE-MFS-19193-1] c37 N75-19686
A device for installing rocket engines
[NASA-CASE-MFS-19220-1] c14 N75-22356
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c26 N75-29236
Thrust measurement
[NASA-CASE-XMS-05731] c35 N75-29382
ROCKWELL INTERNATIONAL CORP., CANOGA PARK, CALIF.
Aircraft mounted crash activated transmitter
device
[NASA-CASE-MFS-16609-3] c09 N74-34647
Method and apparatus for detecting flaws in
elongated bodies
[NASA-CASE-MFS-19218-1] c14 N74-34860
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c74 N75-22119
Brazing alloy binder
[NASA-CASE-XMP-05868] c26 N75-27125
Brazing alloy composition
[NASA-CASE-XMP-06053] c26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c26 N75-27127
Method and apparatus for vibration analysis
utilizing the Mossbauer effect
[NASA-CASE-XMP-05882] c35 N75-27329
ROCKWELL INTERNATIONAL CORP., DOWNEY, CALIF.
Planned major modular assembly jig
[NASA-CASE-MSC-19372-1] c37 N75-11351
ROPH CORP., CHULA VISTA, CALIF.
Method of forming shapes from planar sheets of
thermosetting materials
[NASA-CASE-NPO-11036] c15 N72-24522
ROYAL AIRCRAFT ESTABLISHMENT, FARNBOROUGH (ENGLAND).
Garments for controlling the temperature of the
body Patent
[NASA-CASE-XMS-10269] c05 N71-24147
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[NASA-CASE-XMS-00907] c02 N70-41630
Masking device Patent
[NASA-CASE-XNP-02092] c15 N70-42033

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Increasing efficiency of switching type
regulator circuits Patent
[NASA-CASE-XMS-09352] c09 N71-23316
SANTA CLARA UNIV., CALIF.
System for measuring Reynolds stress in a
turbulently flowing fluid
[NASA-CASE-ARC-10755-2] c34 N75-16770
Reversed cowl flap inlet thrust augmentor
[NASA-CASE-ARC-10754-1] c07 N75-24736
SCHJELDAHL (G. T.) CO., NORTHFIELD, MINN.
Rotating mandrel for assembly of inflatable
devices Patent
[NASA-CASE-XLA-04143] c15 N71-17687
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c15 N71-24164
SCOTT AVIATION CORP., LANCASTER, N.Y.
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c54 N75-13534
SINGER-GENERAL PRECISION, INC., BINGHAMTON, N.Y.
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c10 N72-31273
SMITH ELECTRONICS, INC., CLEVELAND, OHIO.
Phase detector assembly Patent
[NASA-CASE-XNP-00701] c09 N70-40272
SMITHSONIAN ASTROPHYSICAL OBSERVATORY, CAMBRIDGE, MASS.
Atomic hydrogen maser with bulb temperature
control to remove wall shift in maser output
frequency
[NASA-CASE-HQN-10654-1] c16 N73-13489

- Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-1C790-1] c16 N74-11313
- SOLID STATE RADIATIONS, INC., LOS ANGELES, CALIF.**
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c05 N71-19440
- SOUTHERN METHODIST UNIV., DALLAS, TEX.**
Growth of gallium nitride crystals
[NASA-CASE-LAR-11302-1] c25 N75-13054
- SPACE SCIENCES, INC., WALTHAM, MASS.**
Doppler shift system
[NASA-CASE-HQN-10740-1] c24 N74-19310
- SPACE TECHNOLOGY LABS., INC., REDONDO BEACH, CALIF.**
Method and apparatus for measuring potentials in plasmas Patent
[NASA-CASE-XLE-00821] c25 N71-15650
- AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c10 N71-15910
- Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c14 N71-16014
- Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c15 N71-16078
- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c09 N71-16086
- Solar cell mounting Patent
[NASA-CASE-XNP-00826] c03 N71-20895
- Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c18 N71-21068
- Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c10 N71-22962
- Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c15 N71-23048
- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c10 N71-28859
- SPACE LABS, INC., VAN NUYS, CALIF.**
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c10 N71-24862
- Respiration monitor
[NASA-CASE-FRC-10012] c14 N72-17329
- SPACO, INC., HUNTSVILLE, ALA.**
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XNP-03934] c09 N71-22985
- Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c14 N71-28993
- SPECTRA-PHYSICS, INC., MOUNTAIN VIEW, CALIF.**
Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c14 N71-20428
- SPECTROLAB, INC., SYLMAR, CALIF.**
Ultraviolet filter
[NASA-CASE-XNP-02340] c23 N69-24332
- Central spar and module joint Patent
[NASA-CASE-XNP-02341] c15 N71-21531
- Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c03 N72-25019
- SPERRY GYROSCOPE CO., GREAT NECK, N.Y.**
Automatic gain control system
[NASA-CASE-XMS-05307] c09 N69-24330
- SPERRY RAND CORP., BLUE BELL, PA.**
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c10 N71-19547
- SPERRY RAND CORP., HUNTSVILLE, ALA.**
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c14 N71-26627
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c07 N71-27191
- Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c15 N71-29133
- Frequency division multiplex technique
[NASA-CASE-KSC-10521] c07 N73-20176
- Device for configuring multiple leads
[NASA-CASE-MFS-22133-1] c15 N74-26977
- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c44 N75-22900
- System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c37 N75-33395
- SPERRY RAND CORP., NEW YORK.**
A remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c37 N75-14131
- SPERRY RAND CORP., PHOENIX, ARIZ.**
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c15 N72-22482
- STANFORD RESEARCH INST., MENLO PARK, CALIF.**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c09 N71-18843
- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c12 N71-20896
- Magnetic power switch Patent
[NASA-CASE-NPO-10242] c09 N71-24803
- Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c06 N72-17094
- STANFORD UNIV., CALIF.**
Active RC networks
[NASA-CASE-ARC-10042-2] c10 N72-11256
- Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c09 N72-21245
- Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c21 N72-21624
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c36 N75-19653
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c33 N75-27251
- STANFORD UNIV., PALO ALTO, CALIF.**
RC networks and amplifiers employing the same
[NASA-CASE-YAC-05462-2] c10 N72-17171
- STATE UNIV. OF IOWA, IOWA CITY.**
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c18 N71-20742
- SYLVANIA ELECTRONIC SYSTEMS-CENTRAL, WILLIAMSVILLE, N.Y.**
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c16 N72-13437
- Altitude sensing device
[NASA-CASE-XMS-01994-1] c14 N72-17326

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- TAG DESIGNS, INC., COLLEGE PARK, MD.**
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c03 N72-11062
- Phototropic composition of matter
[NASA-CASE-XGS-03736] c14 N72-22443
- TAPT BROADCASTING CORP., HOUSTON, TEX.**
Television noise reduction device
[NASA-CASE-MSC-12607-1] c32 N75-21485
- TANABACK SCIENTIFIC CO., INC., ORANGE, CALIF.**
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c35 N75-19629
- TECHNICOLOR, INC., PARANUS, N.J.**
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c14 N73-32319
- TECHNIDYNE, INC., WEST CHESTER, PA.**
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c15 N71-17686
- TECHNOLOGY, INC., HOUSTON, TEX.**
Apparatus and method for processing Korotkov sounds
[NASA-CASE-MSC-13999-1] c05 N74-26626
- TECHNOLOGY, INC., SAN ANTONIO, TEX.**
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c10 N72-20225
- Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c05 N72-33096
- TELEDYNE BROWN ENGINEERING, HUNTSVILLE, ALA.**
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c14 N73-19420
- TEMPLE UNIV. RESEARCH INST., PHILADELPHIA, PA.**
Barium release system
[NASA-CASE-LAR-10670-1] c06 N73-30097
- Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c31 N74-27360
- TEXAS INSTRUMENTS, INC., DALLAS.**
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c09 N72-33205

TEXAS TECHNOLOGICAL UNIV., LUBBOCK.

Insulated electrocardiographic electrodes
[NASA-CASE-MSC-14339-1] c05 N75-24716

TRANS-SONICS, INC., LEXINGTON, MASS.

Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c14 N72-22442

TRIDENT ENGINEERING ASSOCIATES, INC., ANNAPOLIS, MD.

Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c23 N71-26206

TRW EQUIPMENT LABS., CLEVELAND, OHIO.

Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c03 N71-11057

TRW SYSTEMS GROUP, REDONDO BEACH, CALIF.

Ablative resin Patent
[NASA-CASE-XLP-05913] c33 N71-14032

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c15 N71-24694

Multiple varactor frequency doubler Patent
[NASA-CASE-XMP-04958-1] c10 N71-26414

Booster tank system Patent
[NASA-CASE-MSC-12390] c27 N71-29155

Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c14 N72-11363

Cosmic dust analyzer
[NASA-CASE-MSC-13802-1] c30 N72-20805

Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c08 N72-21200

System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c28 N72-22772

Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c09 N72-25262

Digital control and information system
[NASA-CASE-NPO-11016] c08 N72-31226

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c14 N74-32883

Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c37 N75-25185

TRW SYSTEMS, REDONDO BEACH, CALIF.

Electromechanical actuator
[NASA-CASE-XMP-05975] c15 N69-23185

Control valve and co-axial variable injector Patent
[NASA-CASE-XMP-09702] c15 N71-17654

Multiple orifice throttle valve Patent
[NASA-CASE-XMP-09698] c15 N71-18580

Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XMP-09704] c12 N71-18615

Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c12 N71-27332

TRW, INC., REDONDO BEACH, CALIF.

Method of and device for determining the characteristics and flux distribution of micrometeorites
[NASA-CASE-NPO-12127-1] c14 N74-13130

Reinforced structural plastics
[NASA-CASE-LEW-1C199-1] c18 N74-23125

TYCO LABS., INC., WALTHAM, MASS.

Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c15 N69-39786

Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c26 N71-16037

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UNIFIED SCIENCE ASSOCIATES, INC., PASADENA, CALIF.

Method of producing crystalline materials
[NASA-CASE-NPO-10440] c15 N72-21466

UNION CARBIDE CORP., NEW YORK.

Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c16 N71-20400

UNITED AIRCRAFT CORP., EAST HARTFORD, CONN.

Supporting and protecting device Patent
[NASA-CASE-XMP-00580] c11 N70-35383

Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c14 N71-21007

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c05 N71-24623

Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c05 N71-24730

Tertiary flow injection thrust vectoring system

Patent
[NASA-CASE-MFS-20831] c28 N71-29153

Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c05 N72-25119

UNITED AIRCRAFT CORP., STRATFORD, CONN.

Bonded joint and method
[NASA-CASE-LAR-10900-1] c15 N74-23064

UNITED AIRCRAFT CORP., WEST PALM BEACH, FLA.

Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c09 N74-14935

UNITED AIRCRAFT CORP., WINDSOR LOCKS, CONN.

Water separating system Patent
[NASA-CASE-XMS-13052] c14 N71-20427

Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c05 N72-20098

UNITED TECHNOLOGY CENTER, SUNNYVALE, CALIF.

Solid propellant liner Patent
[NASA-CASE-XMP-09744] c27 N71-16392

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VAPOR CORP., CHICAGO, ILL.

Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMP-04237] c33 N71-16278

VARIAN ASSOCIATES, PALO ALTO, CALIF.

High power-high voltage waterload Patent
[NASA-CASE-XMP-05381] c09 N71-20842

The 3-5 photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c33 N75-16745

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Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c15 N69-21460

Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c07 N72-25170

Thin film microwave iris
[NASA-CASE-LAR-10511-1] c09 N72-29172

Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c34 N75-32389

VIVOMEX CORP., MOUNTAIN VIEW, CALIF.

Amino acid analysis
[NASA-CASE-NPO-12130-1] c25 N75-14844

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WEBER AIRCRAFT CORP., BURBANK, CALIF.

Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c05 N71-12343

Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c05 N71-20718

Collapsible Apollo couch
[NASA-CASE-MSC-13140] c05 N72-11085

WESTINGHOUSE ELECTRIC CORP., BALTIMORE, MD.

Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c07 N69-27462

Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c07 N69-39980

Solid state current transformer
[NASA-CASE-MFS-22560-1] c33 N75-26251

WESTINGHOUSE ELECTRIC CORP., HUNTSVILLE, ALA.

Solid state television camera system Patent
[NASA-CASE-XMP-06092] c07 N71-24612

Phototransistor
[NASA-CASE-MFS-20407] c09 N73-19235

WESTINGHOUSE ELECTRIC CORP., LIMA, OHIO.

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c10 N71-27126

WESTINGHOUSE ELECTRIC CORP., PITTSBURGH, PA.

Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c09 N70-41675

Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c09 N70-41717

Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c33 N71-15568

High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c14 N71-17574

Regulated power supply Patent
 [NASA-CASE-XMS-01991] c09 N71-21449
 Pulse modulator providing fast rise and fall
 times Patent
 [NASA-CASE-XMS-04919] c09 N71-23270
 Extended area semiconductor radiation detectors
 and a novel readout arrangement Patent
 [NASA-CASE-XGS-03230] c14 N71-23401
 Frequency shift keying apparatus Patent
 [NASA-CASE-XGS-01537] c07 N71-23405
 Phase locked phase modulator including a voltage
 controlled oscillator Patent
 [NASA-CASE-XNP-05382] c10 N71-23544
 Bearing and gimbal lock mechanism and spiral
 flex lead module Patent
 [NASA-CASE-GSC-10556-1] c31 N71-26537
 Multiple slope sweep generator Patent
 [NASA-CASE-XMS-03542] c09 N71-28926
 Self-adjusting multisegment, deployable, natural
 circulation radiator Patent
 [NASA-CASE-XHQ-03673] c33 N71-29046
 Thermally cascaded thermoelectric generator
 [NASA-CASE-NPO-10753] c03 N72-26031
 Phototransistor imaging system
 [NASA-CASE-MFS-20809] c23 N73-13660
 Demodulator for carrier transducers
 [NASA-CASE-NUC-10107-1] c09 N74-17930
 Heat transfer device
 [NASA-CASE-NPO-11120-1] c33 N74-18552
 Method of forming a wick for a heat pipe
 [NASA-CASE-NPO-13391-1] c33 N74-19584
 Amplitude steered array
 [NASA-CASE-GSC-11446-1] c09 N74-20860
 Glass-to-metal seals comprising relatively high
 expansion metals
 [NASA-CASE-LPW-10698-1] c15 N74-21063
 Millimeter wave pumped parametric amplifier
 [NASA-CASE-GSC-11617-1] c09 N74-32660
WESTON INSTRUMENTS, INC., COLLEGE PARK, MD.
 Electronically resettable fuse Patent
 [NASA-CASE-XGS-11177] c09 N71-27001
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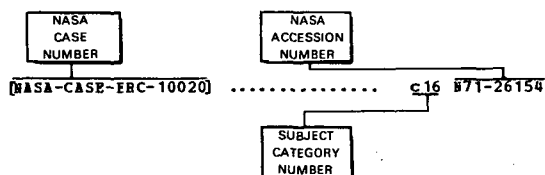
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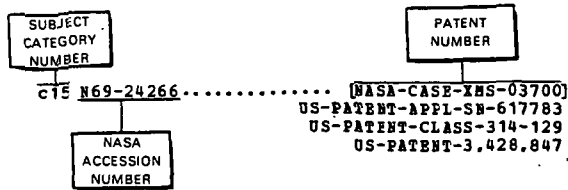
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